

D 101-1115-3431-204-20P

# TM 5-3431-204-20P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS  
AND SPECIAL TOOL LISTS

WELDING MACHINE, ARC; GENERATOR; GASOLINE  
ENGINE DRIVEN; SINGLE OPERATOR; REMOTE CONTROL;  
300 AMP, DC, ARC; SKID MTD; 60 AMP AT 20 V MIN,  
375 AMP AT 40 V MAX CURRENT; DC 115 V, 3 KW  
AUXILIARY POWER: MIL SPEC W-13768 (HOBART  
MODELS) (HOBART MODEL GH-3153)

FSN 3431-351-9209

(HOBART MODEL GH-3153-S)

FSN 3431-239-8186

This copy is a reprint which includes current  
pages from Change 1.

HEADQUARTERS, DEPARTMENT OF THE ARMY  
JANUARY 1963

TM 5-3431-204-20P  
C 1

CHANGE }  
NO. 1 }

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C. 21 February 1968

Organizational Maintenance Repair Parts and Special Tool  
Lists

WELDING MACHINE, ARC; GENERATOR; GASOLINE ENGINE DRIVEN;  
SINGLE OPERATOR; REMOTE CONTROL; 300 AMP, DC, ARC; SKID  
MOUNTED; 60 AMP AT 20V MIN., 375 AMP AT 40V MAX. CURRENT  
DC, 115V, 3KW AUXILIARY POWER  
(MIL SPEC W, 13768 HOBART MODELS)  
(HOBART MODEL GH-3153)  
FSN 3431-351-9209  
(HOBART MODEL GH-3153-S)  
FSN 3431-239-8186

TM 5-3431-204-20P, 29 January 1963, is changed as follows: Cover and title page is changed as above. Change date on cover page to read January 1963.

*Page vi*, table 1, Prescribed Load Listing. In line item 2, change FSN from 2920-248-1618 to 2920-516-6778 and change manufacturer's code and part number from (19728) AR4S to (70040) SR44E.

In line 3, change FSN from 2920-294-3867 to 2920-817-8724 and change manufacturer's code from (19728) to (23040).

*Page viii*. Paragraph 5, Index to Federal Supply Code for Manufacturers. The following Federal supply codes are added to the list in proper numerical order:

23040..... Ford Motor Co., Parts and accessories  
operation

86403..... Chrysler Corp, Parts Division

Paragraph 6 is superseded as follows:

## **6. Report of Equipment Publication Improvements**

Report of errors, omissions, and recommendations for improving this manual by the individual user is encouraged. Reports should be submitted on a DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

All Federal stock numbers and reference numbers, additions, changes, and deletions should be made to indexes.

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Page	Line	Action	Federal stock number	Description	Guide quantities per 100 equipments		Illustrations				
					15 Days organizational maintenance	Field maintenance 15-day level	Depot maintenance	Fig. no.	Item no.		
					2nd Ech	1-5 Equip	6-10 Equip	3rd Ech	4th Ech	5th Ech	
1	23	Ch. col. e	2910-358-4748	Section II. REPAIR PARTS LIST 0100 - ENGINE ASSEMBLY GASKET * * *							
5	15	Ch. col. e	2940-141-9025	0108 - ENGINE LUBRICATION SYSTEM ELEMENT, FILTER (81321) PLS1							
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10	6	Ch. col. e	2910-358-4748	GASKET * * *							
12	6	Ch. col. e	4720-541-3662	0304 - AIR CLEANER HOSE, AIR CLEANER: performed (28835) SCW713							
23	2	Ch. cols. e and f	2930-364-2760	0504 - WATER PUMP PUMP, WATER (86403) 1064925							
29	43	Ch. cols. e and f	2920-516-6778	0604 - IGNITION COMPONENTS SPARK PLUG * * * (70040) SR44E							
30	2	Ch. cols. e and f	2920-817-8724	SPARK PLUG "B" (23040) AR8S							
30	2	Ch. cols. e and f	2920-272-1331	0607 - INSTRUMENT OR ENGINE CONTROL PANEL SWITCH, LOCK, IGNITION (92278) DW1014							

By Order of the Secretary of the Army:

HAROLD K. JOHNSON,  
*General, United States Army,*  
*Chief of Staff.*

Official:

KENNETH G. WICKHAM,  
*Major General, United States Army,*  
*The Adjutant General.*

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25, Section I, requirements for organizational maintenance, welding equipment.

TECHNICAL MANUAL  
No. 5-3431-204-20P }

HEADQUARTERS,  
DEPARTMENT OF THE ARMY  
WASHINGTON 25, D.C., 29 January 1963

### ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS

**WELDING MACHINE, ARC: GENERATOR; GASOLINE ENGINE DRIVEN; SINGLE OPERATOR; REMOTE CONTROL; 300 AMP, DC, ARC; SKID MTD; 60 AMP AT 20 V MIN, 375 AMP AT 40 V MAX CURRENT; DC 115 V, 3 KW AUXILIARY POWER: MIL SPEC W-13768 (HOBART MODELS) (HOBART MODEL GH-3153) FSN 3431-351-9202 (HOBART MODEL GR-3153-S) FSN 3431-239-8186**

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\* This manual supersedes so much of Department of the Army Supply Manual ENG 7 & 8-5131, 19 October 1954, including C 2, 14 July 1959.

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## SECTION I

### INTRODUCTION

#### 1. General

a. This manual lists the special tools and quantities of repair parts authorized and required to be stocked by organizational maintenance echelons as their prescribed load. Repair parts not authorized for stockage but which may be required to perform maintenance of the equipment are listed with no quantities shown. Information and data shown herein serve as requisitioning reference material, and as a guide to determine quantities of repair parts required for stockage.

b. Price information for stock-type repair parts may be obtained from applicable Department of the Army type 2-series supply manuals.

c. Repair parts lists are arranged as follows:

- (1) Individual parts and major assemblies are listed alphabetically by item name within the numbered functional groups.
- (2) Assembly components and subassemblies are indented and listed alphabetically by item name under major assemblies.
- (3) Bulk material and parts peculiar with more than one application are listed in either functional group 9501 or 9901.

d. Allowances are based on 1,500 hours operation per year.

e. Parts applicable to specific engines, serial number ranges, or models of this end item are indicated by a letter symbol in the description column, following the nomenclature. The symbols apply as follows:

- (A) Applies to Hobart Welding Machine Model GH-3153 W/Chrysler Model IND5A435 Engine.
- (B) Applies to Hobart Welding Machine Model GR-3153S W/Chrysler Model IND7A2M Engine.

Parts not symbolized or annotated are applicable to all end items.

#### 2. Explanation of Repair Parts, Tool Lists, and Prescribed Load Listing (Table I).

a. *Source Codes.* This column is subdivided into four columns. The titles and information provided in each column are as follows:

- (1) *Technical service.* This column lists either the basic number of the technical service or code symbol of the supply center assigned supply responsibility for the part. Those spaces left blank denote Corps of Engineers supply responsibility. General Engineer supply parts are identified by the letters "GE" in parentheses, following the nomenclature in the description column. Other technical service basic numbers or supply center code symbols are:

3—Chemical Corps  
9—Ordnance Corps  
10—Quartermaster Corps  
11—Signal Corps  
55—Transportation Corps

(2) *Source.* The selection status and source of supply for each part are indicated by one of the following code symbols:

- (a) P—applied to high-mortality repair parts which are stocked in or supplied from the technical service depot system and authorized for use at indicated maintenance echelons.
- (b) P1—applied to repair parts which are low-mortality parts, stocked in or supplied from technical service depots, and authorized for installation at indicated maintenance echelons.
- (c) M—applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance echelons.
- (d) A—applied to assemblies which are not procured or stocked as such but made up of two or more units, each

- of which carry individual stock numbers and descriptions and are procured and stocked and can be assembled by units at indicated maintenance echelons.
- (e) X—applied to parts and assemblies which are not procured or stocked, the mortality of which is normally below that of the applicable end item, and the failure of which should result in retirement of the end item from service.
  - (f) X1—applied to repair parts which are not procured or stocked, the requirement for which will be supplied by use of next higher assembly or component.
  - (g) X2—applied to repair parts which are not stocked. The indicated maintenance echelon requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
  - (h) C—applied to repair parts authorized for local procurement. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of non-availability from local procurement.
  - (i) G—applied to major assemblies that are procured with PEMA (Procurement Equipment Missile Army) funds for initial issue only to be used as exchange assemblies at field maintenance level. These assemblies will not be stocked above field maintenance level or returned to depot supply level.
  - (j) Z—applied to obsolete repair parts no longer stocked or procured.

(3) *Maintenance.*

- (a) The lowest maintenance echelon authorized to manufacture, assemble, and/or install the part is indicated by the code symbol:

O—Organizational Maintenance  
(1st and 2d echelons).

Capabilities of higher maintenance echelons are considered equal or better.

- (b) This column is blank when components of kits or sets are listed that are not applicable to the item of equipment, or when an item is source coded X1.

(4) *Recoverability.* Repair parts and/or tool and equipment items that are recoverable are indicated by one of the following code symbols:

- (a) R—applied to repair parts and assemblies which are economically repairable at field maintenance activities (3d and 4th echelons) and are normally furnished by supply on an exchange basis. Items that can be economically repaired are considered nonexpendable.

- (b) T—applied to high-dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.

- (c) U—applied to repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high-dollar value reusable casings, castings, and the like.

*Note.* When no code is shown in the recoverability column, the part is considered expendable.

b. *Federal Stock Numbers.* When a Federal stock number is available for a part, it will be shown in this column and used for requisitioning purposes.

c. *Description.*

- (1) The item name and a brief description of the part are shown.
- (2) A five-digit Federal Supply Code for manufacturers and/or other technical services is shown in parentheses, fol-

lowed by the manufacturer's part number. This number will be used for requisitioning purposes when no Federal stock number is indicated in the Federal Stock Number column.

*Example:* (08645) 86453.

- (3) Repair part quantities included in kits, sets, and assemblies, that differ from the actual quantity used in this specific end item, are listed in parentheses.
- (4) When repair parts are source coded "C", the manufacturer's part number will be used for local procurement.

d. *Unit of Issue.* Where no abbreviation is shown in this column, the unit of issue is "each".

e. *Quantity Incorporated in Unit.* The actual number of parts used in the application indicated is shown in this column. A zero (0) is shown when components of kits or sets are listed that are not applicable to this specific end item.

f. *15-Day Organizational Maintenance Allowance.* Shown for each repair part is either a quantity or an asterisk (\*) allocation which indicates the following:

- (1) A quantity is shown for each repair part authorized to be stocked as the prescribed load. This quantity is based on past experience with similar items and the latest mortality data for 1,500 hours operation per year. It is the average quantity required to provide organizational maintenance for 1-5 and/or 6-10 items of equipment for a 15-day period under average combat conditions.

*Note.* Combat essential items which must be stocked or on order at organizational maintenance at all times, regardless of demand, will be identified in the allowance column by a quantity in parentheses.

Table I is the prescribed load listing of items quantitatively allocated herein and lists the combat essential items required to support the end item of equipment. Repair parts required to perform organizational maintenance, which are not authorized for stockage, are identified by an asterisk

in section II, and are to be requisitioned for immediate use only.

- (2) The quantities listed in table I are for one prescribed load for a 15-day period. A minimum stockage sufficient to repair one item and/or assembly is authorized (e.g., if 3 belts are required, then 3 belts are allocated as the min stockage). This quantity will be indicated in the minimum stockage authorization column. The quantities contained in the prescribed load must be on hand or on order at all times. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads by the appropriate end item spread column of 1-5 or 6-10. When more than 10 equipments are authorized, multiply the quantity authorized in the 6-10 density spread column by the number of equipments and the number of prescribed loads, divide by 10, and round to the nearest whole number.

*Example:* If the density spread is 4, the number of equipments is 17, and the number of prescribed loads is 1, the following formula would be used:

$$4 \times 17 \times 1 \div 10 = 6.8$$

The resulting fraction is 0.8; therefore, the stockage is 7.

*Example:* If the density spread is 4, the number of equipments is 17, and the number of prescribed loads is 3, the following formula would be used:

$$4 \times 17 \times 3 \div 10 = 20.4$$

The resulting fraction is 0.4; therefore, the stockage is 20.

*Note.* An exception is made for those units and organizations required to have on hand, boxed or packaged prescribed load(s) pursuant to a special mission assignment. Such prescribed load(s) will be computed or selected separately from quantities authorized for stockage at permanent station.

- (3) Subsequent changes to allowances will be limited as follows:

- (a) No decrease in the stated quantity of combat essential items is authorized.

*Table I. Prescribed Load Listing*

Federal stock No.	Description	Functional group	Minimum stockage authorization	15-day organizational maintenance allowances	
				1-5	6-10
2910-145-0220	GASKET: carburetor body (T1500) 121-69.	0301	....	....	1
2920-248- <del>26</del> 18	SPARK PLUG (19728) AR4S.	(A)	0604	6	12
2920-294- <del>38</del> 67	SPARK PLUG (19728) AR8S.	(B)	0604	6	12
2920-426-2010	ELEMENT, FILTER (81321) PD51.	0108	....	....	6
5310-141-1583	WASHER, FLAT: cover shoulder bolt, copper; 0.640 in. id., 0.750 in. od., 0.063 in. thk (81321) 30738.	0108	....	....	6
5330-246-2906	GASKET: air cleaner elbow (74865) 952062.	0304	....	....	1
5330-252-4078	WASHER, NONMETALLIC: fuel pump strainer bowl, cork, 1 55/64 in. id, 2 19/64 in. od, 1/8 in. thk (70040) 1523066.	0302	....	....	1
5330-599-1285	WASHER, NONMETALLIC: filter cover, rubber; 4.375 in. id, 5.125 in. od, 0.068 in. thk (81321) 258027.	0108	....	....	3
5910-127-8448	CAPACITOR, FIXED, PAPER DIELECTRIC: generator exciter burs, No. F, $\nu f$ , 0.1 (28835) DW5133A.	4414	....	....	(1)
5910-284-4087	CAPACITOR, FIXED, PAPER DIELECTRIC: generator brush holder, 0.25 $\nu f$ (28835) DW5133AF.	4414	....	....	(1)
5910-666-8381	CAPACITOR, FIXED, PAPER DIELECTRIC: control panel (28835) DW5133AG.	4414	....	....	(1)

*Table I. Prescribed Load Listing—Continued*

Federal stock No.	Description	Functional group	Minimum stockage authorization	15-day organizational maintenance allowances	
				1-5	6-10
5910-669-3913	CAPACITOR, FIXED, PAPER DIELECTRIC: auxiliary control panel .1 $\mu$ f, 500 v, ac/dc (28835) DW5133AA.	4414	.....	.....	(1)
5930-161-6876	CAPACITOR, FIXED, PAPER DIELECTRIC: .1 $\mu$ f, 100 V, dc (28835) DW5133AB.	9901	.....	.....	(1)

- (b) No change in the range of items is authorized. If exception to the prescribed load listing or revision to allowances is considered necessary, a recommendation should be forwarded to the U.S. Army Mobility Support Center (par. 6).
- (c) Decreases in the stated quantity of items other than combat essential items are authorized to a minimum quantity of one and increases in the stated quantity are authorized for all items when justified by demand and usage experience. Detailed procedures for performing these adjustments are prescribed in AR 735-35.

*g. Illustrations.* This column is subdivided into two columns as follows:

- (1) *Figure number.* Indicates the number of the illustration in which the part is shown.
- (2) *Item number.* Indicates the reference number used to point out the part in the illustration.

### 3. Index to Federal Stock Numbers and Manufacturers' Part Numbers

Listed alpha-numerically in the back of this manual are the requisitioning numbers shown in the Federal stock number and/or description column. The alphabetical O is listed as a numerical 0 (zero). This index also lists manufacturers' codes (as applicable) and page numbers.

*Example of index sequence:*

A	BX5-27	38.50
AA	T295	3888-141-4957
A1/2X3	0124	3885 212
A1-950	1-77	389/100.2
A1A22	2530-048-7342	389/100-18
B	2815-097-5429	3895-128-7642

### 4. Abbreviations

ac ..... alternating current  
amp ..... ampere(s)

AWG	..... American Wire Gage
dc	..... direct current
dia	..... diameter(s)
F	..... Fahrenheit
ft	..... foot (feet)
gal	..... gallon(s)
id	..... inside diameter(s)
in	..... inch(es)
lb	..... pound(s)
lg	..... length (long)
mtg	..... mounting(s)
od	..... outside diameter(s)
sh	..... sheet(s)
thd	..... thread(s) (ed)
thk	..... thick(ness)
μf	..... microfarad (s)
v	..... volt(s)
w/	..... with
yd	..... yard

### 5. Index to Federal Supply Code for Manufacturers

00684	.... Nichols Metals Mfg. Co., Inc.
04009	.... Arrow, Hart, and Hegeman Electric Co.
11849	.... Century Electric Co.
18163	.... Dole Valve Co.
19728	.... Electric Auto-Lite Co.
24161	.... Gates Rubber Co.
28835	.... Hobart Brothers Co.
70040	.... AC Spark Plug Division of General Motors Corp.
70403	.... American Stamping Co.
71500	.... Carter Carburetor, Division of ACF Industries, Inc.
74865	.... Chrysler Corp.
81321	.... Purolator Products, Inc.
81336	.... Corps of Engineers.

### 6. Comments and Suggestions

Report all deficiencies in this manual on DA Form 2028. Submit recommendations for changes, additions, or deletions to repair parts allocation and allowance factors and other data. Additional data on climatic and terrain conditions of operation, operational age of the equipment, and the hours operated in the period covered by item 7 of DA Form 2028 are desired. Submit to the Commanding Officer, U.S. Army Mobility Support Center, ATTN: SMOMS-MS, P. O. Box 119, Columbus 16, Ohio. Direct communication is authorized.

SOURCE CODES		FEDERAL STOCK NUMBER	DESCRIPTION	ILLUS-TRATIONS			
TECHNICAL SERVICE SOURCE	SOURCE RECOVERYABILITY.			GUIDE QUANTITIES PER MAJOR EQUIPMENTS	15 DAYS ORGANIZATIONAL MAINTENANCE	FIG. NO.	ITEM NO.
				2ND ECH			
				1-5 EQP	6-10 EQP		
P1	0	2805-353-8007	GASKET SET: engine overhaul (Includes components of GASKET SET, Stock No. 2805-560-9323)	"A" (74865) 1325983	"A" (74865) 637191	1	*
X1		2910-366-6529	GASKET: carburetor flange	(74865) 561378	0	1	See Group 0301
X1			GASKET: carburetor flange (1)	(74865) 637192	0		
X1			GASKET: carburetor flange (1)	(74865) 637192	0		
X1		2805-366-6424	GASKET: carburetor flange (1)	(74865) 651213	0		
X1		2805-737-3645	GASKET: chain case cover (1)	(74865) 600752	0		
X1			GASKET: chain case cover (1)	(74865) 1122450	1		
X1			GASKET: chain case cover plate	"A" (74865) 1122450	1		
X1		2805-190-4219	GASKET: exhaust pipe flange (1)	"A" (74865) 695441	1		
X1			GASKET: exhaust pipe flange (1)	(74865) 6179023	0		
X1		2910-351-6360	GASKET: fuel pump flange	(74865) 683067	0	1	See Group 0302
X1			GASKET: fuel pump flange (1)	"A" (74865) 688482	0		
X1		5330-199-5742	GASKET: oil pressure relief valve cap	"A" (74865) 1117161	0		
X1		2805-362-1266	GASKET: oil pump cover (1)	"A" (74865) 616622	1	1	See Group 0108
X1		5330-298-0765	GASKET: oil pump cover (1)	(74865) 50744	0		
X1			GASKET: oil pump to cylinder block	(74865) 866724	0		
X1		5330-245-5003	GASKET: spark plug	"A" (74865) 695442	1		
X1		2930-215-5121	GASKET: water pump to cylinder block	"A" (74865) 150189	6	1	See Group 0604
X1		2805-353-8111	GASKET SET: manifold	"A" (74865) 637440	1	1	See Group 0504
X1		2905-353-9135	GASKET SET: oil pan	"A" (74865) 983438	1	1	See Group 0110
X1		2805-172-9762	WASHER, NONMETALLIC: oil pump cover, rubber: 2.467 in. id, 2.601 in. od, 0.095 in. thk	"A" (74865) 1124984	1		
P1	0	2805-620-0098	GASKET SET: engine overhaul (Includes components of GASKET SET, Stock No. 2805-024-2076)	"B" (74865) 1243636	"B" (74865) 1243636	1	*
X1		2910-575-3771	GASKET: carburetor adapter	"B" (74865) 562221	"B" (74865) 562221	1	See Group 0301
X1		2910-366-6529	GASKET: carburetor flange	"B" (74865) 637191	"B" (74865) 637191	1	See Group 0301
X1			GASKET: carburetor flange (1)	(74865) 637192	0		
X1		2805-366-6424	GASKET: chain case cover (1)	(74865) 600752	0		
X1		2805-737-3645	GASKET: chain case cover	"B" (74865) 1122450	1		
X1			GASKET: chain case cover plate	"B" (74865) 695441	1		
X1		2805-190-4219	GASKET: exhaust pipe flange (1)	(74865) 679023	0		
X1		2805-298-0514	GASKET: exhaust pipe flange	"B" (74865) 683051	1	1	See Group 0401
X1		2910-351-6360	GASKET: fuel pump flange	"B" (74865) 688482	1		See Group 0302
X1		2910-773-5782	GASKET: fuel pump flange (1)	(74865) 688481	0		
X1			GASKET: fuel pump flange (1)	(74865) 1117161	0		
X1			GASKET: oil pan left	"B" (74865) 1138886	1		
X1		5330-199-5742	GASKET: oil pressure relief valve cap	"B" (74865) 618622	1	1	See Group 0108



IM 2-2431-204-201							
X2 0	2805-353-0045	HEAD, CYLINDER: w/core hole plug	"A" (74865) 1326309	1	*	*	
X2 0	2805-364-2126	HEAD, CYLINDER: w/core hole plug (Used with ENGINE ASSEMBLY, Stock No. (28835) DW6369, up to Serial No. 50,000)	"B" (74865) 1120796	1	*	*	
9 X2 0	5310-721-5040	NUT, PLAIN, HEXAGON: cylinder head stud, cadmium or zinc plated;		2	*	*	
	7/16-20 thd size			1	*	*	
X2 0	4730-278-3388	PLUG, PIPE: timing hole, galvanized; 1/8-27 thd size (GE)		2	*	*	
9 X2 0	5305-836-1392	SCREW, CAP, HEXAGON HEAD: cylinder head, cadmium or zinc-chromate;		1	*	*	
	3/8-16 thd size; 1/2 in. lg			2	*	*	
X2 0	5307-206-1429	STUD, PLAIN: cylinder head, one end 7/16-14 thd size; other end 7/16-20 thd size; 3 11/16 in. lg	(74865) 121852	1	*	*	
X2 0	5307-275-3784	STUD, PLAIN: exhaust manifold; one end 3/8-16 thd size; other end 3/8-24 thd size; 1 15/16 in. lg	(74865) 640723	2	*	*	
9 X2 0	5307-011-4987	STUD, PLAIN: manifold, one end 3/8-16 thd size; other end 3/8-24 thd size; 1 11/16 in. lg	(74865) 6233369	4	*	*	
9 X2 0	5310-655-7149	WASHER, FLAT: cylinder head stud, cadmium or zinc-chromate; 0.469 in. id., 0.922 in. od, 0.065 in. thk		7	*	*	
9 X2 0	5310-639-8062	WASHER, LOCK: cylinder head screw hole plug, cadmium or zinc-chromate; 0.391 in. id, 0.682 in. od, 0.036 in. thk	(74865) 1319068	2	*	*	
				1	*	*	
		0102 - CRANKSHAFT					
X2 0	2805-366-6410	JAW, CRANKSHAFT STARTING	(74865) 588801	1	*	*	
9 X2 0	5310-261-7367	WASHER, LOCK: crankshaft starting jew. 1.142 in. id, 1.827 in. od, 1.125 in. thk	(74865) 655116	1	*	*	
		0105 - VALVES, CAMSHAFTS AND TIMING SYSTEM					
X2 0	2805-366-6390	COVER, VALVE SPRING	"B" (74865) 665689	2	*	*	
X2 0	2805-173-0111	COVER, VALVE SPRING	"A" (74865) 600881	2	*	*	
X1	2805-173-0111	GASKET SET: valve spring cover (Component of GASKET SETS, Stock No. 2805-560-9323 and Stock No. 2805-353-0007, See Group 0100)	"R" (74865) 980583	1			
X1	2805-353-0098	GASKET: valve spring cover	"A" (74865) 871934	2			
Y1	2805-530-2747	GASKET: valve spring cover screw	"A" (74865) 693959	4			
A1		GASKET SET: valve spring cover (Component of GASKET SETS, Stock No. 2805-024-2076 and Stock No. 2805-620-0098, See Group 0100)	"B" (74865) 980384	1			
X1		GASKET: valve spring cover	"B" (74865) 871935	2			
X1	2805-530-2747	GASKET: valve spring cover	"B" (74865) 693959	4			
X2 0		GASKET: valve spring cover	"B" (74865) 693960	4	*	*	
X2 D		SCREEN, SPECIAL HEAD: valve spring cover, S/16-18 thd size; 3/32 in. lg "B" (74865) 693958		4	*	*	
		0108 - ENGINE LUBRICATION SYSTEM					
X2 D	2805-366-6412	AIR CLEANER: crankcase ventilator	(74865) 627488	1	*	*	
X2 0	5306-017-8429	BOLT, MACHINE: crankcase air cleaner mtg, cadmium or zinc plated; 5 1/16-18 thd size, 4 in. lg	(74865) 169298	1	*	*	
X2 0		BRACKET: oil filter mtg	"B" (28835) DW6339	1	*	*	
X2 0		BRACKET: oil filter mtg	"A" (74865) 1328938	1	*	*	

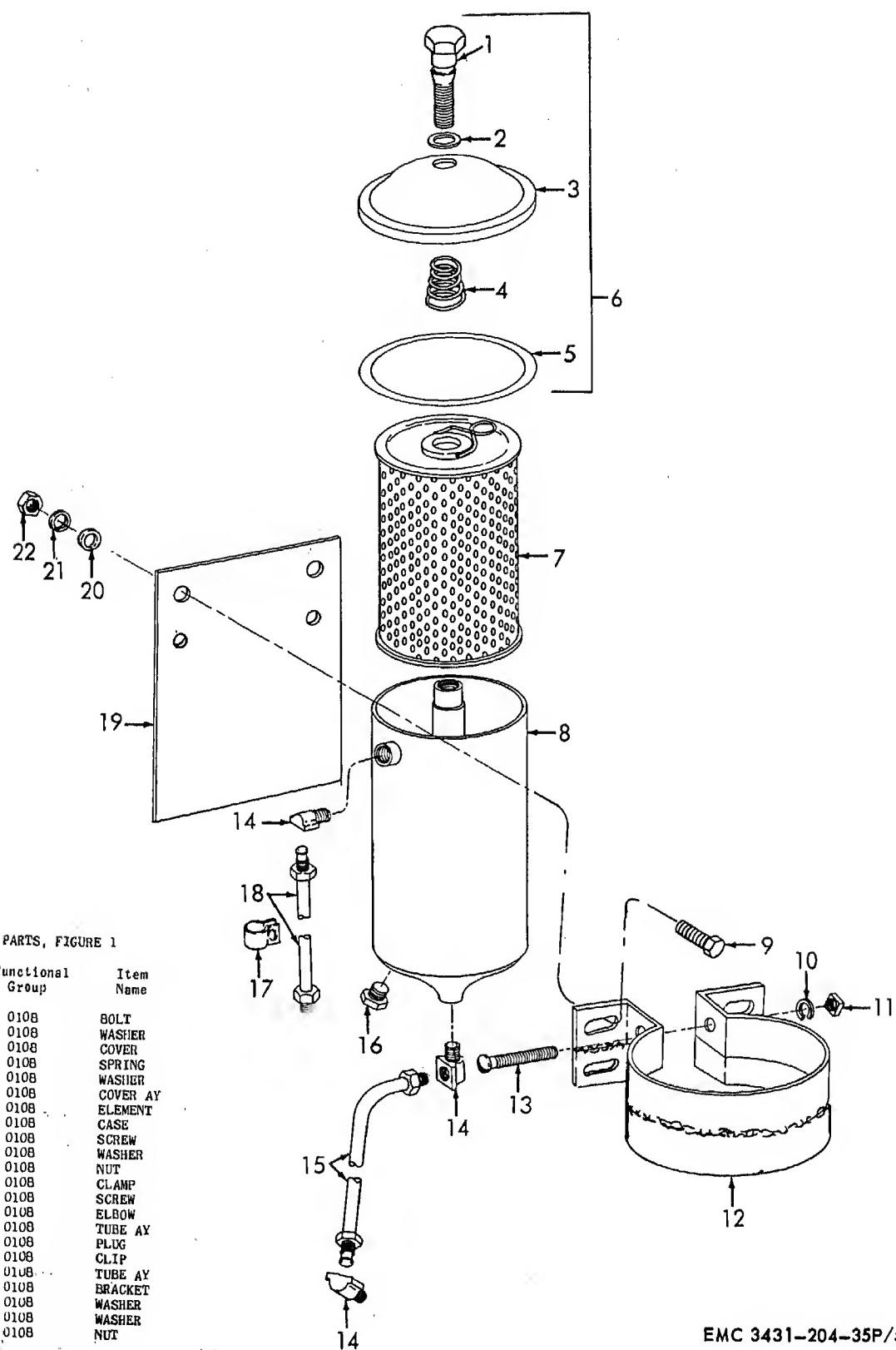


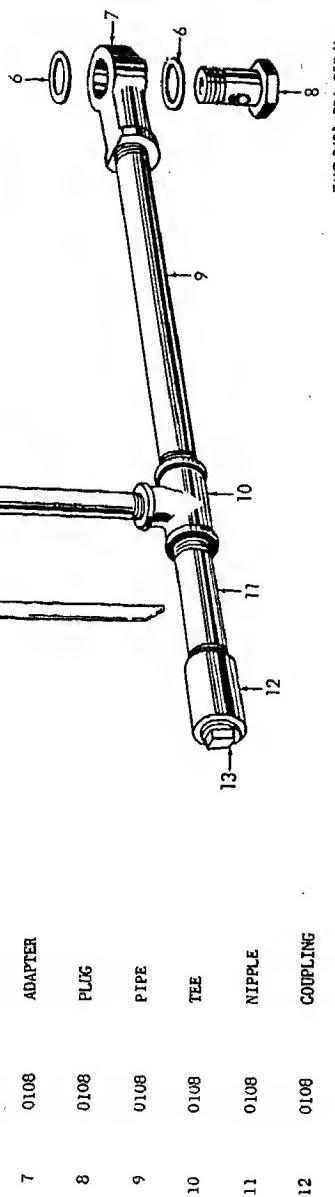
Figure 1. Oil Filter.

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT				ILLUSTRATIONS FIG. NO.	
			15 DAYS ORGANIZATIONAL MAINTENANCE		2NO ECH			
			1-5 EQP	6-10 EQP	1-5 EQP	6-10 EQP		
0108 - ENGINE LUBRICATION SYSTEM (cont)								
X2 0	2805-294-9999	BREATHER: air cleaner	"A" (74865) 1316571	1	*	*		
X2 0	2940-173-1768	CLAMP, OIL FILTER	(74865) 920260	1	*	*	1 12	
X2 0		CLIP: engine to oil filter tube	"A" (74865) 6084473	1	*	*	1 17	
X2 0	4730-277-8273	ELBOW, PIPE TO TUBE: oil filter bottom outlet, brass; one end male, 1/8-27 thd size; other end female, 1/4 in. tube, 7/16-24 thd size	"A" (74865) 225810	6	*	*	1 14	
X2 0	4730-277-8273	ELBOW, PIPE TO TUBE: oil filter, oil filter outlet and inlet tube, brass; one end male, 1/8-27 thd size; other end female, 1/4 in. tube, 7/16-24 thd size	"B" (74865) 225810	4	*	*	1 14	
X2 0	2940-309-9919	FILTER ASSEMBLY, OIL	(01321) 27160	1	*	*	1	
X1		CASE, FILTER	(01321) 26709-1	1	*	*	1 8	
X2 0	2940-215-7141	COVER ASSEMBLY, OIL FILTER	(01321) 25791	1	*	*	1 6	
X2 0	5306-360-7964	BOLT, SHOULDER: filter cover	(01321) 25755	1	*	*	1 1	
X1		COVER, FILTER	(01321) 25801	1	*	*	1 3	
X2 0	2940-292-1139	SPRING, HELICAL, COMPRESSION: filter element	(01321) 25757	1	*	*	1 4	
P 0	5310-141-1583	WASHER, FLAT: cover shoulder bolt, copper; 0.640 in. id, 0.750 in. od, 0.063 in. thk	(01321) 30738	1	*	*	1 4	
P 0	5330-599-1285	WASHER, NONMETALLIC: filter cover, rubber; 4.375 in. id, 5.125 in. od, 0.068 in. thk	(01321) 258027	1	*	*	1 2	
P 0	2920-026-2010	ELEMENT, FILTER	(01321) PD51	1	*	*	1 7	
X2 0	4730-011-2578	PLUG, PIPE: oil filter drain, brass or bronze; 1/4-18 thd size (GE)	(01321) 25795	1	*	*	1 16	
X2 0	6680-075-6576	GAGE ROD: w/drain pipe assembly	"B" (28835) DW977	1	*	*		
X2 0	3432-393-6593	ADAPTER, OIL DRAIN PLUG	"B" (28835) DW1003A	1	*	*	2 7	
X2 0	4730-187-7612	COUPLING, PIPE: oil drain, galvanized, both ends female, 1/2-14 thd size (GE)	"B" (28835) DW978	1	*	*		
X2 0	2805-309-8723	GAGE, OIL: bayonet type	"B" (28835) DW1354	1	*	*	2 3	
P1 0	2805-527-7712	GASKET: oil drain	"B" (28835) 472	2	*	*		
X2 0	4730-265-6905	NIPPLE, PIPE: oil drain, 1/2-14 thd size; 2 1/2 in. lg (GE)	"B"	1	*	*	2 11	
M 0		PIPE: oil drain	"B" (28835) DW978	1	*	*		
P 0	4710-162-1018	MANUFACTURE FROM: PIPE, STEEL: galvanized; 0.500 in. id (GE) (5 7/8 in. required)	"B" (28835) DW979	FT	*	*	2 5	
M 0		PIPE: oil gage bayonet MANUFACTURE FROM:	"B" (28835) DW979	1	*	*		
P 0	4710-162-1018	PIPE, STEEL: galvanized; 0.500 in. id (GE) (7 1/2 in. required)	"B"	FT	*	*		
X2 0	2805-254-2315	PLUG, OIL DRAIN	"B" (28835) DW10038	1	*	*	2 13	
X2 0	4730-276-3412	PLUG, PIPE: oil drain, 1/2-14 thd size (GE)	"B"	1	*	*	2 2	
X2 0	4730-142-1629	PLUG, PIPE: oil gage, 3/4-14 thd size (GE)	"B"	1	*	*		
X2 0	4730-227-6929	REDUCER, PIPE: oil gage; one end female, 3/4-14 thd size; other end female, 1/2-14 thd size (GE)	"B"	1	*	*	2 4	
X2 0	4730-257-2119	TEE, PIPE: oil gage and drain, galvanized; oil ends female, 1/2-14 thd size	"B"	1	*	*		

## INDEX TO PARTS, FIGURE 2

Reference Number	Functional Group	Item Name
1	0108	GAGE
2	0108	PLUG
3	0108	GAGE
4	0108	REDUCER
5	0108	PIPE
6	0108	GASKET
7	0108	ADAPTER
8	0108	PLUG
9	0108	PIPE
10	0108	TEE
11	0108	NIPPLE
12	0108	COUPLING
13	0108	PLUG

TM 5-3431-204-20P



E&amp;MC 3431-204-35P/6

Figure 2. Engine Oil Gage and Drain Pipe.

SOURCE CODES		FEDERAL STOCK NUMBER	RECEVING ABILITY	MAINTENANCE SOURCE	TECHNICAL SERVICE	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			ILLUS-TRATIONS
ITEM NO.	FIG. NO.						15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	1-5 EQP	
M 0						0108 - ENGINE LUBRICATION SYSTEM (cont)				
P 0		5330-233-5847	GASKET: crankcase ventilator outlet pipe MANUFACTURE FROM:	PAPER, GASKET (GE) (3 in. x 3 in. required)		(74865) 301034				
X1		5330-199-5742	GASKET: oil pressure relief valve cap (Component of GASKET SETS. Stock No. 2805-353-8007 and Stock No. 2805-620-0098, See Group 0100)			(74865) 618622	10	1	See Group 9501	

ITEM 5-3431-204-20									
9	X2	0	5310-012-0377	NUT, PLAIN, HEXAGON: oil filter bracket mtg, cadmium or zinc-chromate; 3/8-16 thd size	"B"			*	1 22
9	X2	0	5310-176-8160	NUT, PLAIN, HEXAGON: oil filter clamp, cadmium or zinc plated; 5/16-18 thd size	(74865) 120376	1	*	*	1 11
	X2	0		PIPE, BREATHER	"A" (74865) 871863	1	*	*	
	X2	0		PIPE: crankcase ventilator outlet	"A" (74865) 685266.	1	*	*	
	X2	0		PIPE: crankcase ventilator outlet	"B" (74865) 685680	1	*	*	
	X2	0	2805-266-2551	PIPE, STEEL, CRANKCASE BREATHER	"B" (74865) 871862	1	*	*	
9	X2	0	2805-371-5475	PIPE ASSEMBLY: oil gage and drain	"A" (28835) 3DW278	1	*	*	
9	X2	0	3432-393-6593	ADAPTER, OIL DRAIN PLUG	"A" (28835) DM1003A	1	*	*	2 7
X2	0		2805-374-5158	GAGE, OIL LEVEL, BAYONET	"A" (28835) 3DW348	1	*	*	2 1
P	P	0	2805-327-7712	GASKET: oil drain	"A" (28835) 472	2	*	*	2 6
M	0			PIPE: oil drain	"A" (28835) 3DW350	1	*	*	
				MANUFACTURE FROM:					
				PIPE, STEEL: 1/2 in. id (GE) (5 in. required)	"A"				
				PIPE, STEEL: oil gage	"A" (28835) 3DW279	FT			
				MANUFACTURE FROM:					
				PIPE, STEEL: 1/2 in. id (9 in. required)	"A"				
				PLUG, OIL DRAIN	"A" (28835) DM10038	FT			
X2	0		2805-354-2315	PLUG, PIPE: oil drain; 1/2-14 thd size (GE)	"A"				
X2	0		4730-278-3412	REDUCER, PIPE: oil gage, one end female, 3/4-14 thd size, other end female, 1/4-14 thd size (GE)	"A"				
X2	0		4730-227-6923	TEE, PIPE: oil gage and drain, galvanized; all ends female, 1/2-14 thd size (GE).	"A"				
X2	0		4730-257-2119	PLUG, HEXAGON HEAD: oil pan drain	"A" (74865) 50772	1	*	*	2 9
X2	0			PLUG, HEXAGON HEAD: oil pan drain, 7/8-18 thd size; 1/8 in. (Used with ENGINE ASSEMBLY, Stock No. (28835) 3DW365, up to Serial No. 617801)	"A" (74865) 50772	1	*	*	2 10
X2	0			PLUG, MACHINE THREAD: oil pan drain, 7/8-18 thd size (Used with ENGINE ASSEMBLY, Stock No. (28835) 3DW365, Serial No. 61780 up)	"A" (74865) 1404059	1	*	*	2 8
X2	0		4730-289-5387	PLUG, MACHINE THREAD MAGNETIC: oil pressure relief valve, 3/4-16 thd size (Used with ENGINE ASSEMBLY, Stock No. (28835) 3DW369, Serial No. 50,000 up)	"A" (74865) 618622	1	*	*	
X2	0		4730-289-3313	PLUNGER, OIL PRESSURE RELIEF VALVE	"A" (74865) 1142998	1	*	*	
X2	0		2805-350-3138	PLUNGER, OIL PRESSURE RELIEF VALVE (Used with ENGINE ASSEMBLY, Stock No. (28835) 3DW369, Serial No. 50,000 up)	"B" (74865) 1119204	1	*	*	
X2	0		2805-510-6080	PLUNGER, OIL PRESSURE RELIEF VALVE (Used with ENGINE ASSEMBLY, Stock No. (28835) 3DW369, up to Serial No. 50,000)	"B" (74865) 618759	1	*	*	
X2	0		2805-213-6398	SCREEN BREATHER PIPE, OIL	(74865) 871851	1	*	*	
9	X2	0	5305-012-1837	SCREEN, CAP, HEXAGON HEAD: oil filter bracket mtg, cadmium or zinc-chromate; 3/8-16 thd size; 3/8 in. lg	"B"				
9	X2	0	5305-266-6281	SCREW, CAP, HEXAGON HEAD: oil filter bracket mtg, cadmium plated; 3/8-16 thd size; 3/4 in. lg	"A" (74865) 122119	2	*	*	1 9
9	X2	0	5305-551-0135	SCREW, MACHINE: oil filter clamp, cadmium or zinc-chromate; 5/16-18 thd size; 2 1/2 in. lg	(74865) 133129	1	*	*	1 13
P1	0		2805-254-1360	SPRING, HELICAL, COMPRESSION: oil plunger relief valve, plain, standard "A" (74865) 1119994		1	*	*	

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS		ILLUS-TRATIONS	
			15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH		
P1 0	5340-644-3197	SPRING, HELICAL, COMPRESSION: oil pressure relief valve, standard, painted blue (Used with ENGINE ASSEMBLY, Stock No. (28835) DM6369, Serial No. 50,000 up)	"B" (74865) 1119205	1	*	*
P1 0	2805-268-1109	SPRING, HELICAL, COMPRESSION: oil pressure relief valve, standard, painted red	"B" (74865) 1121250	1	*	*
M 0		TUBE ASSEMBLY: engine to oil filter MANUFACTURE FROM: INVERTED NUT, TUBE COUPLING: zinc plated; 1/4 in. tube, 7/16-24 thd size TUBE, COPPER (1 1/2 in. required)	(74865) 861610	1		1 15
P 0	4710-277-5525	TUBE ASSEMBLY: filter to engine outlet 7/16-24 thd size	(74865) 137397	FT	2	*
X2 0	4730-288-9387	WASHER, FLAT: crankcase air cleaner mtg, cadmium plated; plain steel, large, 5/16 in. id WASHER, FLAT: oil filter mtg, cadmium or zinc-chromate; 0.375 in. id, 0.875 in. od, 0.083 in. thk (Supplied under Stock No. 5310-209-0710)	(74865) 861594	1	*	*
X2 0	4730-288-9387	WASHER, FLAT: oil filter bracket mtg, cadmium-chromate; 0.382 in. id, 0.688 in. od, 0.094 in. thk WASHER, LOCK: oil filter clamp, cadmium or zinc-chromate; 0.319 in. id, 0.591 in. od, 0.078 in. thk	(74865) 120387	2	*	*
9 X2 0	5310-637-9541	(Component of GASKET SET, Stock No. 2805-620-0098, See Group 0100)	(74865) 120387	4	*	1 20
9 X2 0	5310-012-0214	GASKET: intake and exhaust manifold center (Component of GASKET SET, Stock No. 2805-353-8007, See Group 0100)	(74865) 120382	2	*	1 21
		GASKET: intake and exhaust manifold center	(74865) 120214	1	*	1 10
		0110 - MANIFOLDS				
9 X2 0	5306-286-5784	BOLT, MACHINE: manifold, 3/8-24 thd size; 4 in. lg	"B" (74865) 126167	4	*	*
X1	2805-173-0109	GASKET SET: manifold (Component of GASKET SET, Stock No. 2805-620-0098, See Group 0100)	"B" (74865) 780462	1		
X1	5330-190-4218	GASKET: intake and exhaust manifold end (Component of GASKET SET, Stock No. 2805-353-8007, See Group 0100)	"B" (74865) 666353	1		
X1	2805-353-8111	GASKET: intake and exhaust manifold center (Component of GASKET SET, Stock No. 2805-353-8007, See Group 0100)	"A" (74865) 780460	1		
X1		GASKET: intake and exhaust manifold center	"A" (74865) 601275	1		
X1		GASKET: intake and exhaust manifold end	"A" (74865) 310942	4		
X2 0	2805-358-7610	MANIFOLD ASSEMBLY, INTAKE AND EXHAUST	"B" (74865) 1326637	1	*	*
9 X2 0	5306-268-5784	BOLT, MACHINE: manifold to manifold, 3/8-24 thd size; 4 in. lg	"B" (74865) 126167	4	*	*
P 0	2805-366-6449	GASKET: intake to exhaust manifold	"B" (74865) 666352	1	*	*
X2 0		MANIFOLD, INTAKE	"B" (74865) 1121704	1	*	*
9 X2 0	5310-021-9589	NUT, PLAIN, HEXAGON: manifold to manifold bolt, brass; 3/8-24 thd size	"B" (74865) 114457	4	*	*

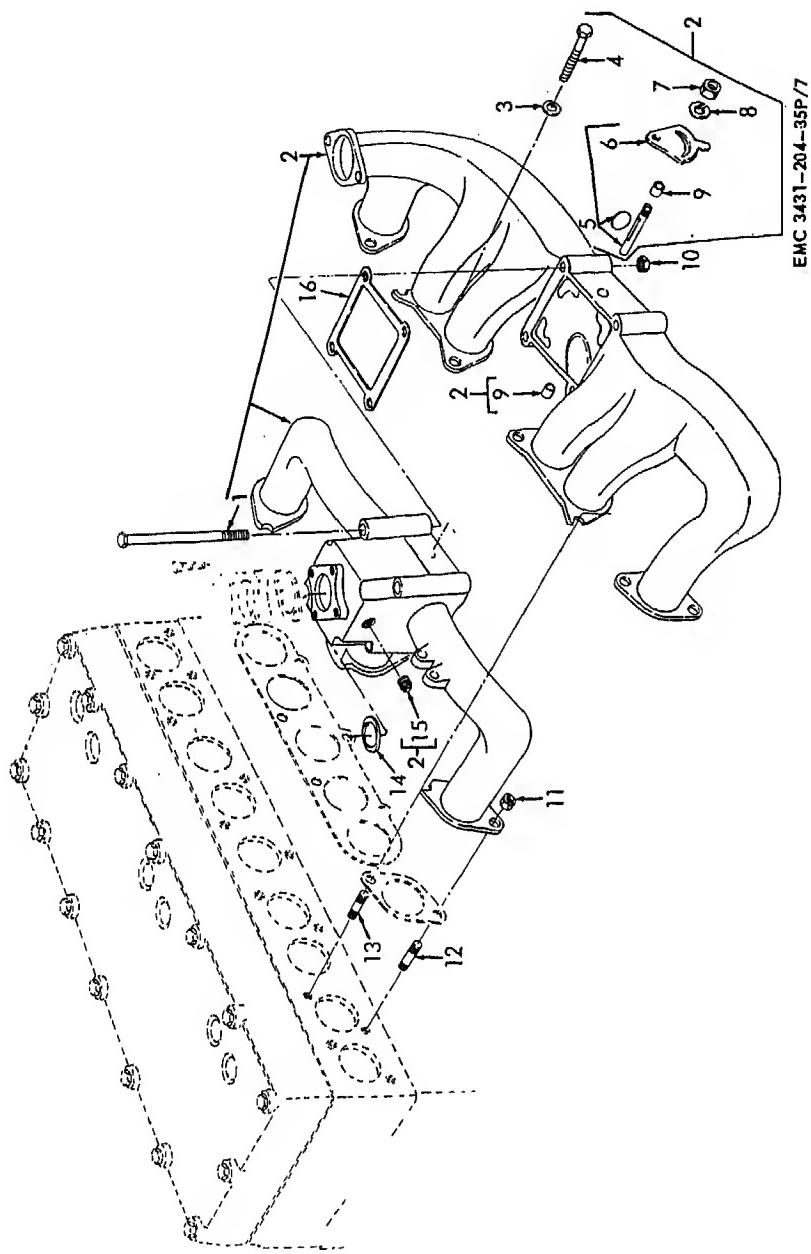


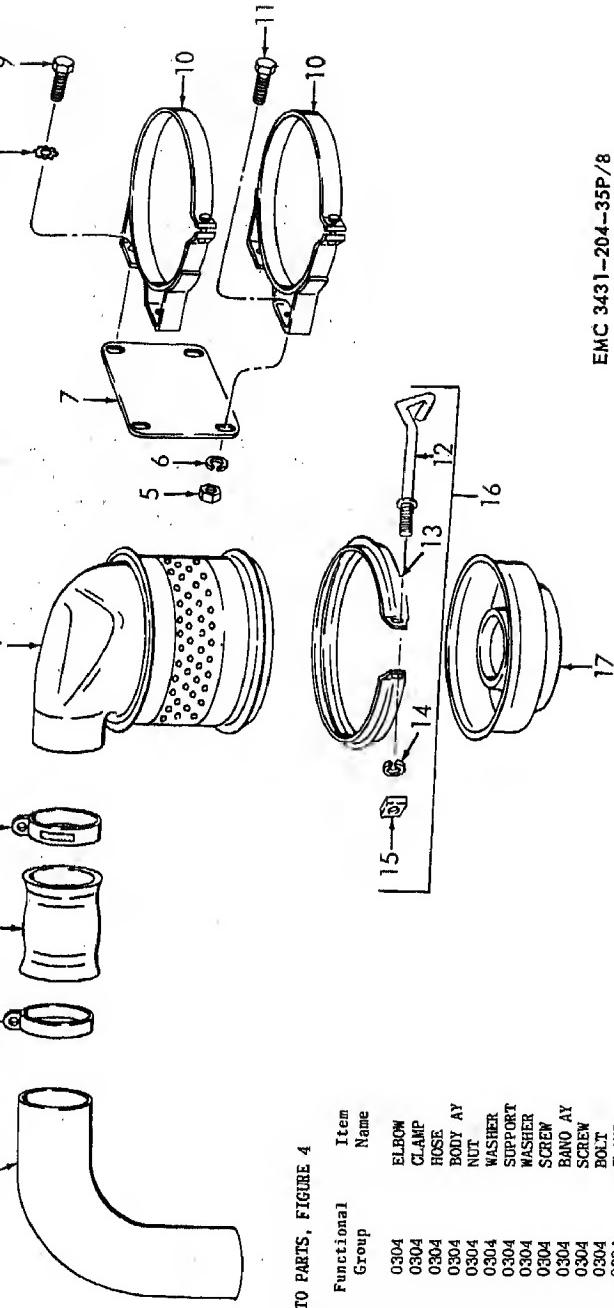
Figure 3. Manifolds.

INDEX TO PARTS, FIGURE 3					
Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	0110	BOLT	5	0110	SHAFT AV
2	0110	MANIFOLD AV	6	0110	PLATE
3	0110	WASHER	7	0110	NUT
4	0110	SCREW	8	0110	WASHER
			9	0110	BEARING
			10	0110	WASHER
			11	0110	NUT
			12	0101	STUD
			13	0101	STUD
			14	0110	RING
			15	0110	PLATE
			16	0110	GASKET

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT				ILLUS. TRATIONS
			15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	FIG. NO.	ITEM NO.	
X2 0	4730-278-3039	PLUG, PIPE: intake manifold, 3/8-18 thd size	"B" (74865) 103867	1	*	*	3 15
X2 0	2805-376-8283	RING, FUEL CENTRALIZER	"A" (74865) 1122465	1	*	*	3 14
X2 0	2805-397-9291	MANIFOLD ASSEMBLY: intake and exhaust	"A" (74865) 1122193	1	*	*	3 2
P1 0	2805-353-8093	BEARING, SLEEVE: manifold heat control valve shaft	"A" (74865) 651251	2	*	*	3 9
X2 0	5306-272-4270	BOLT, MACHINE: intake to exhaust manifold, 5/16-18 thd size;					
		2 1/2 in. lg	"A" (74865) 317942	4	*	*	3 1
P 0	2805-353-8086	GASKET: intake to exhaust manifold	"A" (74865) 601420	1	*	*	3 16
9 X2 0	5310-011-4545	NUT, PLAIN, HEXAGON: manifold heat control valve, brass; 1/4-28 thd size	"A" (74865) 114545	1	*	*	3 7
X2 0	4730-278-3039	PLUG, PIPE: intake manifold, 3/8-18 thd size (GE)	"A" (74865) 103867	1	*	*	
9 X2 0	5305-527-3895	SCREEN, CAP, HEXAGON HEAD: manifold, cadmium or zinc-chromate; 3/8-16 thd size; 3 in. lg	"A" (74865) 122207	2	*	*	3 4
X2 0		SHAFT ASSEMBLY: heat control valve	"A" (74865) 614976	1	*	*	3 5
X2 0		PLATE, ADJUSTING: heat control valve	"A" (74865) 604504	.1	*	*	3 6
X2 0	5307-014-7716	STUD, PLAIN: manifold heat control valve, cadmium or zinc plated; one end 1/4-20 thd size; other end, 1/4-28 thd size; 1 in. lg	"A" (74865) 121753	1	*	*	
9 X2 0	5310-194-1540	WASHER, FLAT: manifold heat control, cadmium or zinc-chromate; 0.281 in. id. 0.625 in. od. 0.065 in. thk	"A"	3	*	*	
9 X2 0	5310-012-1753	WASHER, LOCK: manifold heat control valve, cadmium or zinc plated; 0.262 in. id. 0.502 in. od. 0.025 in. thk	"A" (74865) 121753	1	*	*	3 8
9 X2 0	5310-010-3026	NUT, PLAIN, HEXAGON: exhaust manifold mtg. 3/8-24 thd size	"A" (74865) 114547	4	*	*	3 10
9 X2 0	5310-021-5589	NUT, PLAIN, HEXAGON: manifold mtg. brass; 3/8-24 thd size	"A" (74865) 114547	7	*	*	3 11
9 X2 0	5305-018-6283	SCREEN, CAP, HEXAGON HEAD: manifold, 3/8-16 thd size; 3 1/2 in. lg	"B"	2	*	*	
9 X2 0	5307-011-3247	STUD, PLAIN: carburetor mtg. cadmium or zinc plated; one end, 3/8-16 thd size; other end, 3/8-24 thd size; 1 7/16 in. lg	"A" (74865) 113247	2	*	*	5 10
X2 0	5310-353-8073	WASHER, CLINCH RING: manifold clamp, 13/32 in. id. 1 in. od	"B" (74865) 43699	4	*	*	
9 X2 0	5310-188-4234	WASHER, FLAT: manifold clamp, 13/32 in. id. 7/8 in. od. 1/8 in. thk	"A" (74865) 567331	4	*	*	3 3
X2 0	5310-278-3034	WASHER, RECESSED: exhaust manifold stud, brass; 7/16 in. id. 3/4 in. od. 1/4 in.	"A" (74865) 623366	4	*	*	
X2 0		ADAPTER, CARBURETOR FLANGE	"B" (74865) 1069119	1	*	*	
X2 0	2910-353-8134	ADAPTER, FLANGE: carburetor	"A" (74865) 920248	1	*	*	5 7
P 0	2910-358-5540	CARBURETOR, FLOAT	(74865) 1317258	1	*	*	5 5
P 0	2910-145-0220	GASKET: carburetor body	(71590) 121-69	1	*	1	
X1	2910-575-3771	GASKET: carburetor adapter	"B" (74865) 562221	1			5 0
P 0		(Component of GASKET SET, Stock No. 2805-620-0098, See Group 0100)	"A" (74865) 562221	1	*	*	

GROUP 03 - FUEL SYSTEM  
0301 - CARBURETOR

	X1		2910-366-6529	GASKET: carburetor flange (Component of GASKET SETS, Stock No. 2805-353-8007, and Stock No. 2805-620-0098, See Group 0100)	(74865) 637191	1				5	9
9	X2	0	5310-022-5831	NUT, PLAIN, HEXAGON: carburetor mtg, cadmium or zinc plated; 3/8-24 thd size	(74865) 120369	2	*	*	*	5	11
9	X2	0	5305-013-3906	SCREEN, MACHINE: carburetor adapter mtg, cadmium or zinc-chromate; 3/8-16 thd size; 1 1/4 in. lg	(74865) 133906	1	*	*	*	5	6
9	X2	0	5310-582-5965	WASHER, LOCK: carburetor mtg, cadmium-chromate; 0.255 in. id, 0.493 in. od, 0.062 in. thk		2	*	*	*	4	17
				0302 - FUEL PUMPS							
9	X2	0	5306-266-6575	BOLT, MACHINE: fuel pump mtg, cadmium or zinc plated; 5/16-18 thd size; 1 1/4 in. lg	(74865) 689482	1	*	*	*	5	25
	X1		2910-351-6360	GASKET: fuel pump flange (Component of GASKET SETS, Stock No. 2805-353-8007 and Stock No. 2805-620-0098, See Group 0100)						5	29
9	X2	0	5310-146-8442	NUT, PLAIN, WING: fuel pump heat shield, cadmium plated; Type A, S, No. 10-32 thd size	(70040) 1537238	1	*	*	*	5	13
P	P	0	2910-364-2776	PUMP, FUEL: gasoline engine	(70040) 1523096	1	*	*	*	4	1
P	P	0	5330-252-4078	WASHER, NONMETALLIC: fuel pump strainer bowl, cork, 1 55/64 in. id, 2 19/64 in. od, 1/8 in. thk	(74865) 1071636	1	*	*	*	4	1
X2	X2	0	2910-358-5845	SHIELD: heat, fuel pump	(74865) 683861	1	*	*	*	4	1
X2	X2	0	5310-043-2226	STUD: fuel pump heat shield	(74865) 120217	1	*	*	*	4	1
9	X2	0	5310-012-0214	WASHER, LOCK: fuel pump mtg, cadmium or zinc-chromate; 0.319 in. id, 0.194 in. id, 0.337 in. od, 0.047 in. thk	(74865) 120214	2	*	*	*	5	26
				0304 - AIR CLEANER							
				AIR CLEANER ASSEMBLY	(006684) E7765	1	*	*	*	4	10
X2	X2	0		BAFO ASSEMBLY	(006684) P2147	2	*	*	*	4	4
X2	X2	0		BODY ASSEMBLY	(006684) 2P3443	1	*	*	*	4	4
X1	X1			BAFFLE, BACKFIRE	(006684) P3081	1					
X1	X1			BODY, AIR CLEANER	(006684) P3080	1					
X1	X1			COVER ASSEMBLY	(006684) P5794	1					
X1	X1			COVER	(006684) 2P1964	1					
X1	X1			TUBE, OUTLET	(006684) P2051	1					
X2	X2	0		SCREEN: air cleaner	(006684) P1973	1	*	*	*		
X2	X2	0		SCREW: air cleaner	(006684) P2043	8	*	*	*		
X1	X1			SKIRT ASSEMBLY	(006684) P5790	1					
X1	X1			SKIRT, OUTER, LOWER	(006684) P2084	1					
X1	X1			SKIRT, OUTER, UPPER	(006684) P2049	1					
X2	X2	0		CLAMP ASSEMBLY: oil cup retaining	(006684) P2989	1	*	*	*	4	16
X2	X2	0		BOLT, CLAMP	(006684) P2690	1	*	*	*	4	12
X1	X1			CLAMP: oil cup retaining	(006684) P3002	1				4	13
X2	X2	0		NUT, SQUARE: clamp assembly	(006684) P5300	1	*	*	*	4	15
X2	X2	0		WASHER	(006684) P2949	1	*	*	*	4	14
X2	X2	0		CUP ASSEMBLY, OIL	(006684) P3342	1	*	*	*	4	17



INDEX TO PARTS, FIGURE 4

Reference Number	Functional Group	Item Name
1	0304	ELBOW
2	0304	CLAMP
3	0304	HOSE
4	0304	BODY AY
5	0304	NUT
6	0304	WASHER
7	0304	SUPPORT
8	0304	WASHER
9	0304	SCREEN
10	0304	BAND AY
11	0304	SCREW
12	0304	BOLT
13	0304	CLAMP
14	0304	WASHER
15	0304	NUT
16	0304	CLAMP AY
17	0304	CUP AY

**Figure 4.** Air Cleaner.

9	X2	0	5305-012-3882	SCREW, CAP, HEXAGON HEAD: air cleaner bracket to engine, cadmium or zinc-chromate; 3/8-24 thd size; 1/2 in. lg	2	*	*	4	9	
9	X2	0	5305-543-2685	SCREEN, MACHINE: air cleaner mtg bracket, cadmium or zinc plated; 1 1/4-20 thd size; 3/8 in. lg	4	*	*	4	11	
X2	0		SUPPORT, AIR CLEANER	(28835) 5GM699	1	*	*	4	7	
9	X2	0	5310-637-9541	WASHER, LOCK: air cleaner bracket to engine, cadmium-chromate; 0.382 in. id. 0.688 in. od. 0.094 in. thk	2	*	*	4	8	
9	X2	0	5310-010-3319	WASHER, LOCK: air cleaner bracket, 0.255 in. id. 0.493 in. od. 0.062 in. thk	4	*	*	4	6	
			0306 - TANKS, LINES, FITTINGS							
9	X2	0	5306-017-9827	BOLT, MACHINE: fuel tank strap, 5/16-18 thd size; 2 1/4 in. lg "A"	2	*	*	5	3	
9	X2	0	5306-012-2007	BOLT, MACHINE: fuel tank support mtg, lower, and battery cable clamp mtg, cadmium or zinc plated; 5/16-18 thd size; 3/4 in. lg "A"	2	*	*	5	30	
P1	0		CAP, FUEL TANK: safety, gas tank	(28835) 53247	1	*	*	6	4	
X2	0		BAR, HOLD DOWN: safety cap	(28835) DM30134	1	*	*	6	3	
X2	0		CAP, FUEL TANK	(28835) DM3006	1	*	*	6	3	
P1	0		PACKING, PREFORMED: gas tank safety cap	(28835) DM1453	1	*	*	6	2	
P1	0		PACKING, PREFORMED: gas tank safety cap	(28835) DM1454	1	*	*	6	7	
9	X2	0	5320-269-8018	RIVET, SOLID: gas tank safety cap, zinc plated; 3/16 in. dia, 1 5/8 in. lg	(28835) DM3169	1	*	*	6	9
9	X2	0	5320-274-9534	RIVET, SOLID: safety cap cover, copper; 3/16 in. dia, 3/32 in. lg	(28835) 50MS286	1	*	*	6	5
9	X2	0	5320-010-4067	RIVET, SOLID: safety cap hold down bar; 3/16 in. dia, 1/2 in. lg	(28835) DM1277	1	*	*	6	6
X2	0		SCREEN AND FLANGE	(28835) DM3085	1	*	*	6	8	
X2	0		SCREEN, MACHINE: leather seal, zinc plated; 5/16-18 thd size; 3/8 in. lg	(28835) DM1440	1	*	*	6	1	
X2	0		SPRING: gas cap rivet	(28835) W790D94	1	*	*	6	10	
X2	0		WASHER, BALL SOCKET: gas tank safety cap rivet, zinc plated; 3/16 in. id, 7/8 in. od. 3/16 in. thk	(28835) DM1439	1	*	*	6	12	
X2	0		WASHER, LOCK: gas tank safety cap, cadmium plated; 0.262 in. id, 0.742 in. od. 0.036 in. thk		1	*	*	6	11	
X2	0		COCK, SHUTOFF, SCREW STEM: fuel tank, brass body; one end male, 1/8-27 thd size; other end female, 5/16 in. tube, 1/2-20 thd size	(28835) AT75	1	*	*	5	31	
X2	0		COUPLING, PIPE: needle valve, brass; both ends female, 1/8-27 thd size		1	*	*	5	32	
X2	0		ELBOW, PIPE TO TUBE: filter to carburetor, brass; one end male, 1/8-27 thd size; other end female, 5/16 in. tube, 1/2-20 thd size	(74865) 137422	1	*	*	5	18	
X2	0		ELBOW, PIPE TO TUBE: fuel pump to carburetor and strainer to tank, brass; one end female, 7/16-24 thd size; other end female, 1/4 in. tube, 1/8-27 thd size	(28835) 1075152	3	*	*	5	16	
X2	0		LINE ASSEMBLY: filter to carburetor	"B" (28835) DM1725	1	*	*	5	17	
M	0		LINE ASSEMBLY, FUEL: filter to carburetor	"A" (74865) 861834	1	*	*	5	17	
9	X2	0	4730-013-7398	INVERTED NUT, TUBE COUPLING: filter to carburetor fuel line, cadmium "A" (74865) 137398	2	*	*			
P	0		TUBE, COPPER: 5/16 in. dia (24 in. required)	"A" (74865) 142966	FT	*	*	5	12	
X2	0		LINE ASSEMBLY, FUEL: fuel tank to fuel pump	(28835) DM6372C	1	*	*	5	14	
X2	0		NIPPLE, PIPE: fuel pump to fuel strainer, 1/8-27 thd size;	(74865) 142966	1	*	*	5	14	
9	X2	0	4730-050-1357	NIPPLE, PIPE: fuel tank to needle valve coupling, cadmium or zinc plated; "A" 1/8-27 thd size; 3/4 in. lg (GE)	1	*	*	5	34	

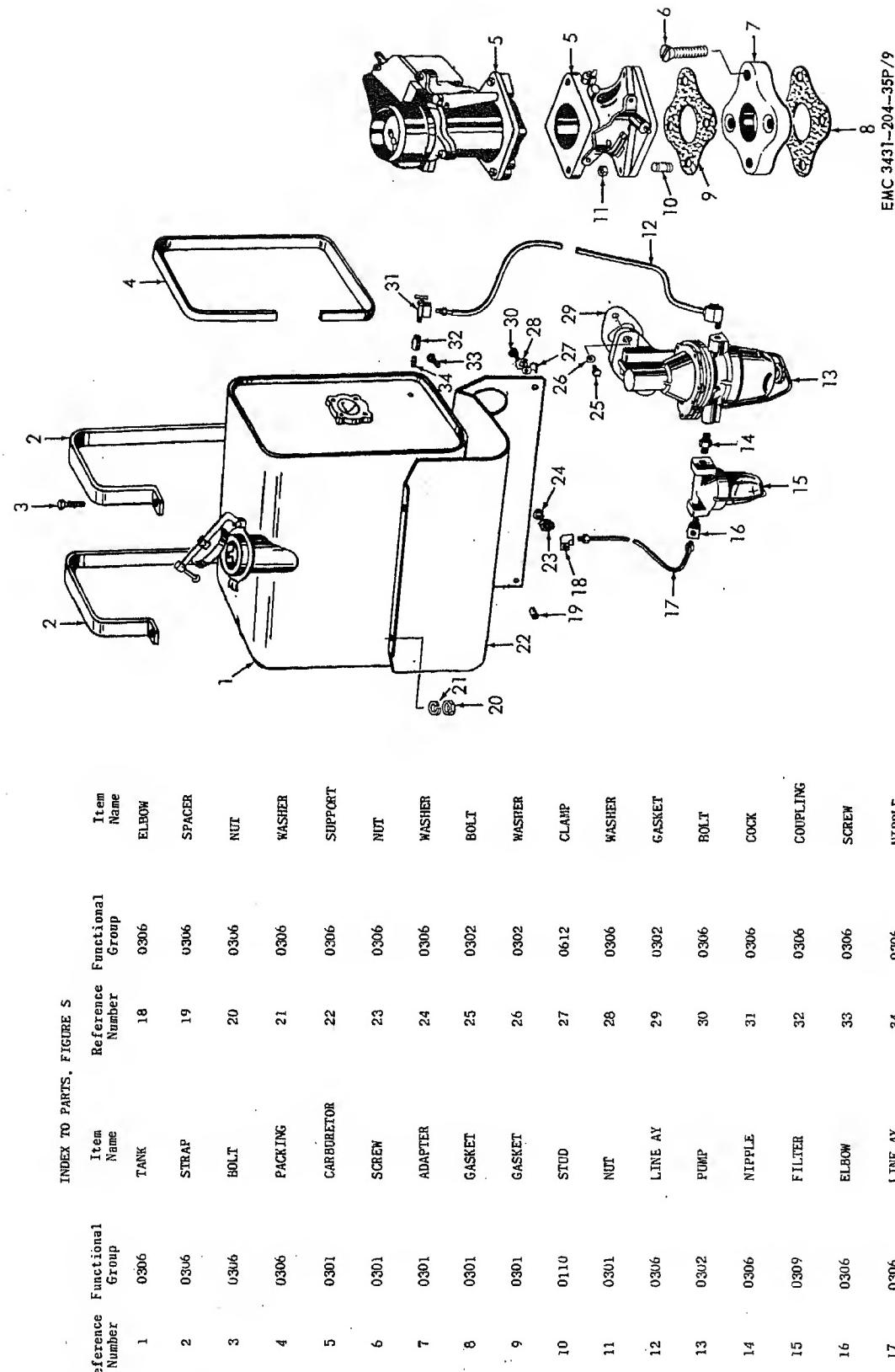


Figure 5. Fuel System for Symbol (A).

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			ILLUSTRATIONS
			QUANTITY IN UNIT	15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	
TECHNICAL SERVICE SOURCE	RECORD ENTRY ABILITY	EXpendable UNIT OF ISSUE	1-5 EQP	6-10 EQP		
0306 - TANKS, LINES, FITTINGS (cont)						
9 X2 0	5310-010-2634	NUT, PLAIN, HEXAGON: fuel tank strap to tank, 5/16-18 thd size "A"	2	*	*	5 20
9 X2 0	5310-584-5005	NUT, PLAIN, HEXAGON: fuel tank support mtg, upper, cadmium or zinc-chromate; 1/4-20 thd size "A"	2	*	*	5 23
X2 0	5330-290-5444	PACKING, MATERIAL: fuel tank strap "A" (29835) 5CW1236	2	*	*	5 4
9 X2 0	5305-012-3737	SCREW, CAP, HEXAGON HEAD: fuel tank support mtg, upper, cadmium or zinc-chromate; 1/4-28 thd size; 1 1/4 in. lg	2	*	*	5 33
9 X2 0	5305-012-0680	SETSCREW: safety gas tank cap, 1/4-20 thd size; 1/2 in. lg "A" (29835) AW397	2	*	*	5 19
X2 0	3431-7-31-B473	SPACER: fuel tank support to housing	"A" (29835) 5CW1236	1	*	5 2
X2 0		STRAP, FUEL TANK SUPPORT, GAS TANK	"A" (29835) DMW211	2	*	5 22
X2 0	R 2910-377-5291	TANK, FUEL, ENGINE	"A" (29835) 5CW1139	1	*	5 1
9 X2 0	R 2910-804-7381	TANK, FUEL, ENGINE	"B" (29835) 5CW981	1	*	7 2
X2 0	5310-012-0214	WASHER, LOCK: fuel tank strap to tank; cadmium or zinc plated; 0.319 in. id, 0.591 in. od, 0.078 in. thk "A"	2	*	*	5 21
9 X2 0	5310-010-3320	WASHER, LOCK: fuel tank support mtg, lower and battery cable clamp mtg, 0.319 in. id, 0.591 in. od, 0.078 in. thk "A"	2	*	*	5 28
9 X2 0	5310-582-5965	WASHER, LOCK: fuel tank support mtg, upper, cadmium-chromate; 0.255 in. id, 0.493 in. od, 0.062 in. thk "A"	2	*	*	5 24
0308 - ENGINE SPEED GOVERNOR						
P 0	3030-180-2127	BELT, V: governor drive	(24161) 3330	1	*	5 15
9 X2 0	5306-010-0124	BOLT, MACHINE: governor mtg, 5/16-18 thd size; 1 1/2 in. lg (29835) DMW490A	2	*	*	20 7
P1 0	R 2990-374-5062	GOVERNOR, GASOLINE, ENGINE	(71500) F0729	1	*	20 5
9 X2 0	5310-560-2649	NUT, PLAIN, HEXAGON: control rod to carburetor, 1/4-28 thd size	(71500) F23-41	1	*	20 3
9 X2 0	5310-010-2634	NUT, PLAIN, HEXAGON: governor mtg screw, 5/16-18 thd size	(71500) F63-1465	2	*	20 4
X2 0	2990-447-4279	ROD, HORIZONTAL: slip joint, governor to carburetor (29835) 5CW701	1	*	*	20 4
9 X2 0	5310-010-3319	WASHER, LOCK: carburetor governor rod, 0.255 in. id, 0.493 in. od, 0.062 in. thk	2	*	*	5 15
9 X2 0	5310-010-8579	WASHER, LOCK: governor mtg screw, 0.319 in. id, 0.601 in. od, 0.097 in. thk	2	*	*	20 6
0309 - FUEL FILTERS						
X2 0	2910-204-3390	FILTER, FLUID PRESSURE: fuel (Includes components of PACKAGE KIT, Stock No. (71500) F30-64U)	(71500) F8625	1	*	5 15
X1		BODY, FILTER	(71500) F0729	1		
X1		BOWL, FUEL FILTER (metal)	(71500) F23-41	1		
X1		RETAINER AND SCREEN: bowl	(71500) F63-1465	1		
X1		SPRING, HELICAL, COMPRESSION	(71500) F61-379	1		
A 0		PACKAGE KIT ELEMENT, FILTER (ceramic)	(71500) F30-64U	1	*	
P1			(71500) F30-60	1	*	

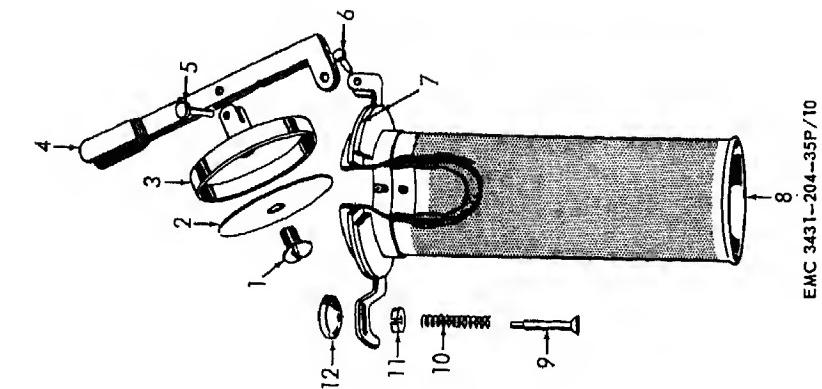


Figure 6. Gas Cap.

## INDEX TO PARTS, FIGURE 6

Reference Number	Functional Group	Item Name
1	0306	SCREW
2	0306	PACKING
3	0306	CAP
4	0306	BAR
5	0306	RIVET
6	0306	RIVET
7	0306	PACKING
8	0306	SCREEN-FLANGE
9	0306	RIVET
10	0306	SPRING
11	0306	WASHER
12	0306	WASHER

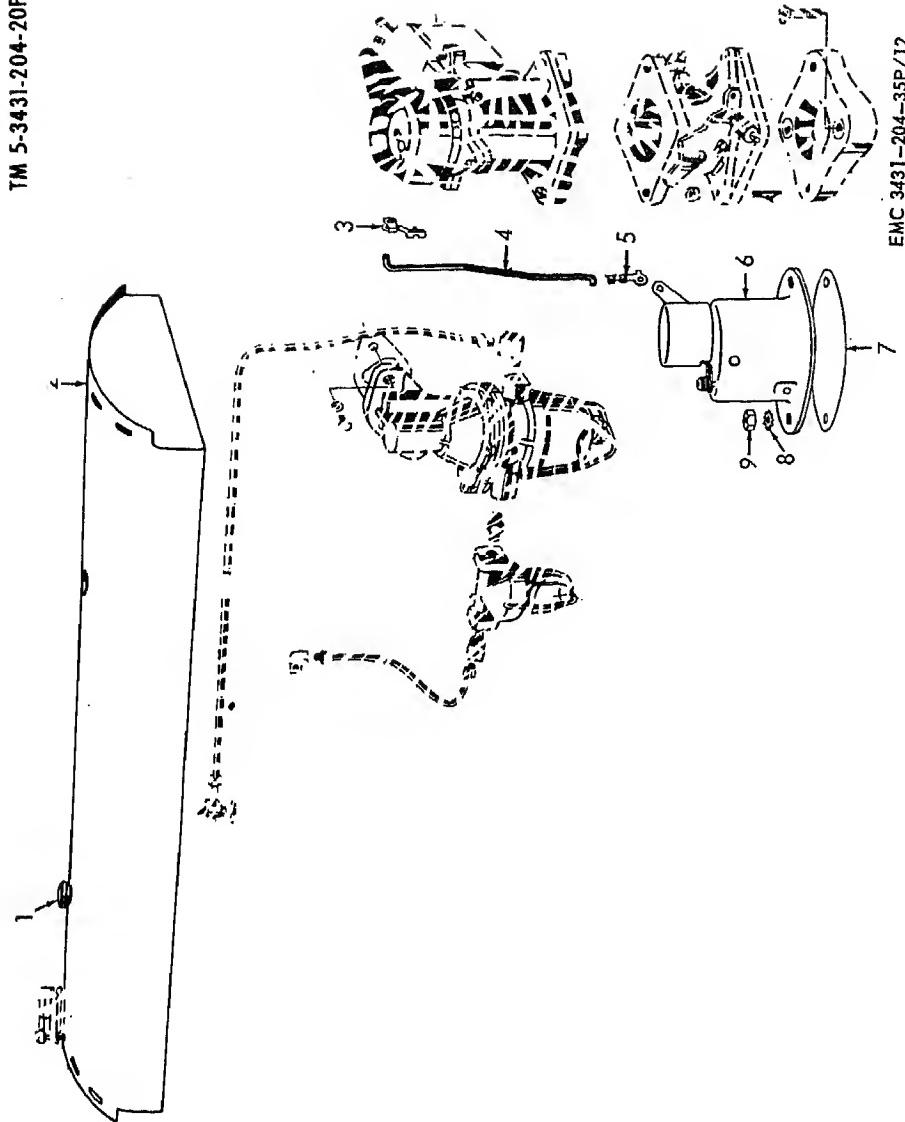
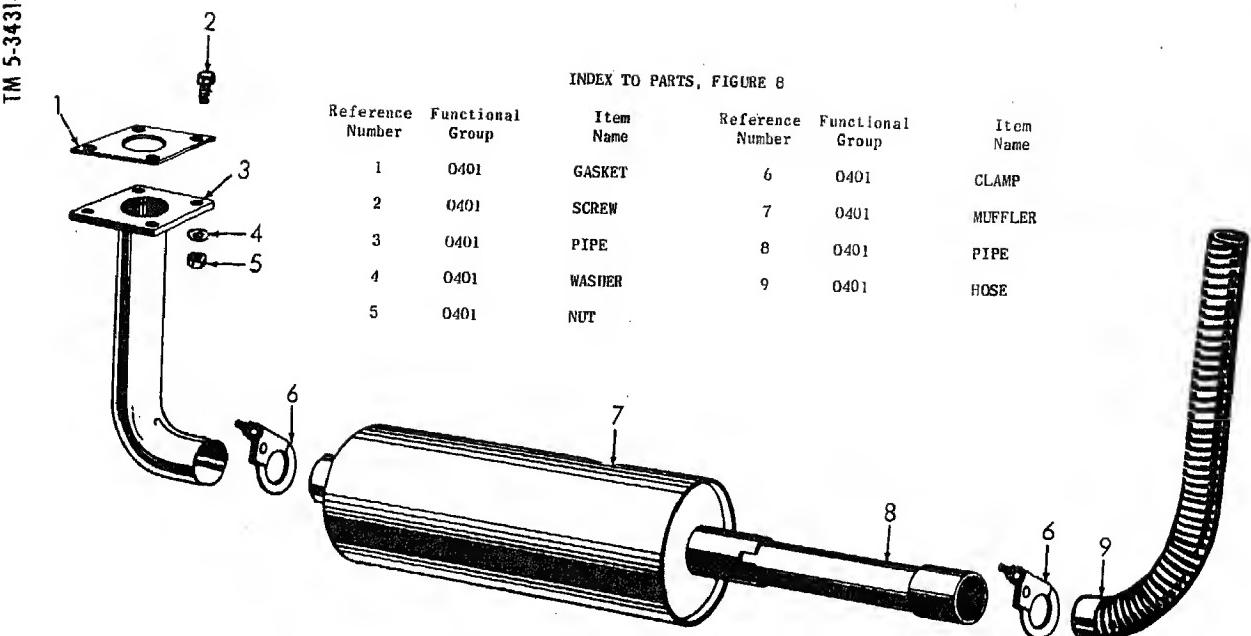


Figure 7. Fuel Tank and Control for Symbol (B).

## INDEX TO PARTS, FIGURE 7

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4702	INDICATOR	4	0312	R00	7	0312	GASKET
2	0306	TANK	5	0312	R00	8	0312	WASHER
3	0312	CLIP	6	0312	CONTROL AY	9	0312	NUT

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			
			RECOVERY ABILITY	Maintainance	15 DAYS ORGANIZATIONAL MAINTENANCE	1-5 EQP
TECHNICAL SERVICE SOURCE	TECHNICAL SERVICE SOURCE	EXPERIENCED UNIT OF ISSUE	QUANTITY IN UNIT	2ND ECH	ITEM NO.	ILLUS-TRATIONS
P 0	2910-495-1613	GASKET				
X2 0	2910-145-0247	BRACKET ASSEMBLY, CHOKE: carburetor choke tube CABLE: automatic choke feed MANUFACTURE FROM: SLEEVE, CABLE	"B" (74865) 651194 "B" (74865) 211318		1	*
M 0			"B" (74865) 926026		1	*
X2 0	5940-271-9499	TERMINAL, LUG: copper, tinned finish; No. 12 to 10 AWG, for No. 10 screw size	"B" (74865) 200393	2	*	*
11 X2 0	6145-313-9429	WIRE, ELECTRICAL: copper, tinned finish; No. 16 AWG, stranded conductor (27 in. required)	"B"	2	*	*
9 P 0		CLIP: automatic choke feed, cable (Located on No. 7 and No. 21 cylinder head screws)	"B" (74865) 871100	FT	*	*
X2 0	2910-366-6542	CLIP, CARBURETOR CHOKE ROD: upper	"B" (74865) 629792		1	*
X2 0	2910-364-2765	CONTROL ASSEMBLY: automatic	"B" (74865) 677179		*	*
X2 0	2990-294-6749	CONTROL ASSEMBLY, PUSH-PULL: choke	"A" (74865) 5C11250	1	*	*
X2 0	2865-364-2769	GASKET: automatic choke	"B" (74865) 647834	1	*	*
9 X2 0	5310-011-4545	NUT, PLAIN, HEXAGON: automatic choke mfg, brass; 1/4-28 thd size	"B" (74865) 114545	2	*	*
X2 0	2910-732-7706	ROD: automatic choke	"B" (28835) 5C1111	1	*	*
X2 0	2910-622-4837	ROD, SPRING CLIP: choke rod, lower	"B" (74865) 612492	1	*	*
9 X2 0	5305-042-6930	SCREW, CAP, HEXAGON HEAD: automatic choke feed cable clip, cadmium or zinc plated; 3/8-24 thd size; 1/16 in. lg	"B" (74865) 123382	2	*	*
9 X2 0	5305-012-1832	SCREW, MACHINE: automatic choke terminal, cadmium or zinc plated; No. 6-32 thd size; 3/8 in. lg	"B" (74865) 121832	1	*	*
9 X2 0	5305-015-5028	SCREEN, MACHINE: choke tube bracket, cadmium or zinc plated; No. 8-32 thd size; 5/16 in. lg	"B"	1	*	*
X2 0	5340-145-0214	SPRING, TENSION CARBURETOR: choke pull back	"A" (74865) 651192	1	*	*
X2 0	5301-269-6700	STUD, PLAIN: automatic choke attaching, one end, 1/4-20 thd size; other end, 1/4-28 thd size; 11/16 in. lg	"B" (74865) 657047	2	*	*
9 X2 0	5310-582-5977	WASHER, FLAT: automatic choke feed cable screw, cadmium or zinc-chromate; 0.406 in. id, 0.812 in. od, 0.065 in. thk	"B" (74865) 120394	2	*	*
9 X2 0	5310-637-9541	WASHER, LOCK: automatic choke feed cable screw, cadmium-chromate; 0.382 in. id, 0.688 in. od, 0.094 in. thk	"B" (74865) 120392	2	*	*
9 X2 0	5310-012-1753	WASHER, LOCK: automatic choke mfg, cadmium or zinc-chromate; 0.292 in. id, 0.502 in. od, 0.025 in. thk	"B" (74865) 121753	2	*	*
9 X2 0	5310-550-0285	WASHER, LOCK: automatic choke terminal, cadmium or zinc-chromate; 0.172 in. id, 0.373 in. od, 0.020 in. thk	"B"	1	*	*

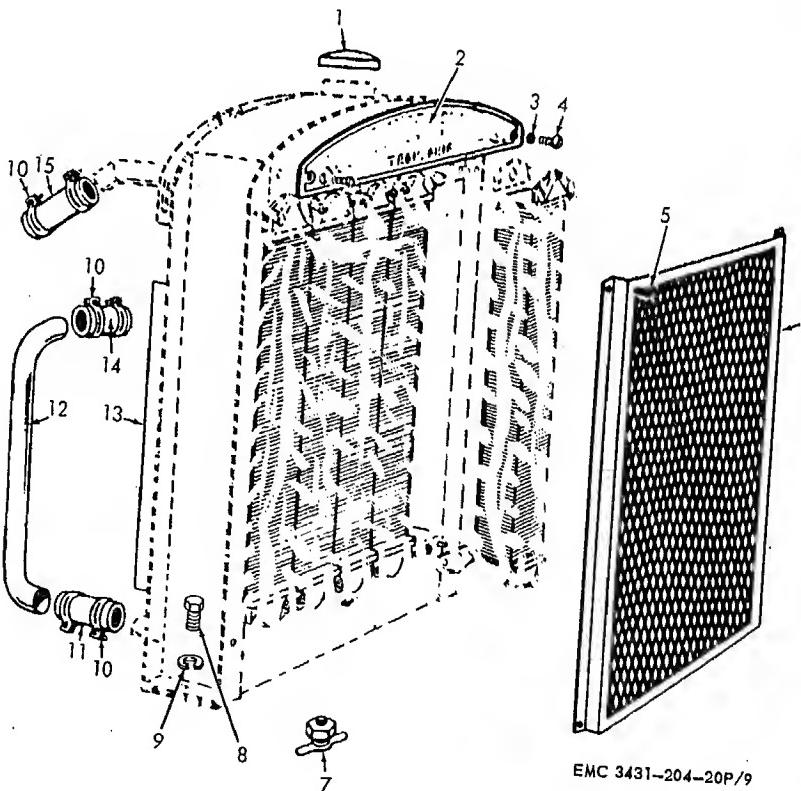


EMC 3431-204-35P/13

Figure 8. Muffler and Pipes.

## INDEX TO PARTS, FIGURE 9

Reference Number	Functional Group	Item Name
1	0501	CAP
2	2210	PLATE
3	2210	GASKET
4	2210	SCREW
5	0501	SCREW
6	0501	GUARD
7	0503	COCK
8	0501	SCREW
9	0501	WASHER
10	0503	CLAMP
11	0503	HOSE
12	0503	PIPE
13	0502	SHROUD
14	0503	HOSE
15	0503	HOSE



EMC 3431-204-20P/9

Figure 9. Radiator Guard for Symbol (A).



## INDEX TO PARTS, FIGURE 10

Reference Number	Functional Group	Item Name
1	0501	CAP
2	0502	BOLT
3	0502	WASHER
4	0502	NUT
5	0502	SHROUD
6	0505	NUT
7	0505	SCREW
8	0505	GUARD
9	0505	GUARD
10	0505	GUARD AY
11	0505	SCREW
12	0503	COCK

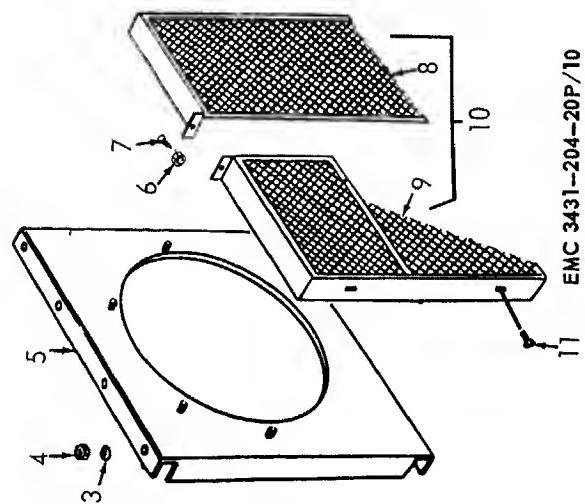
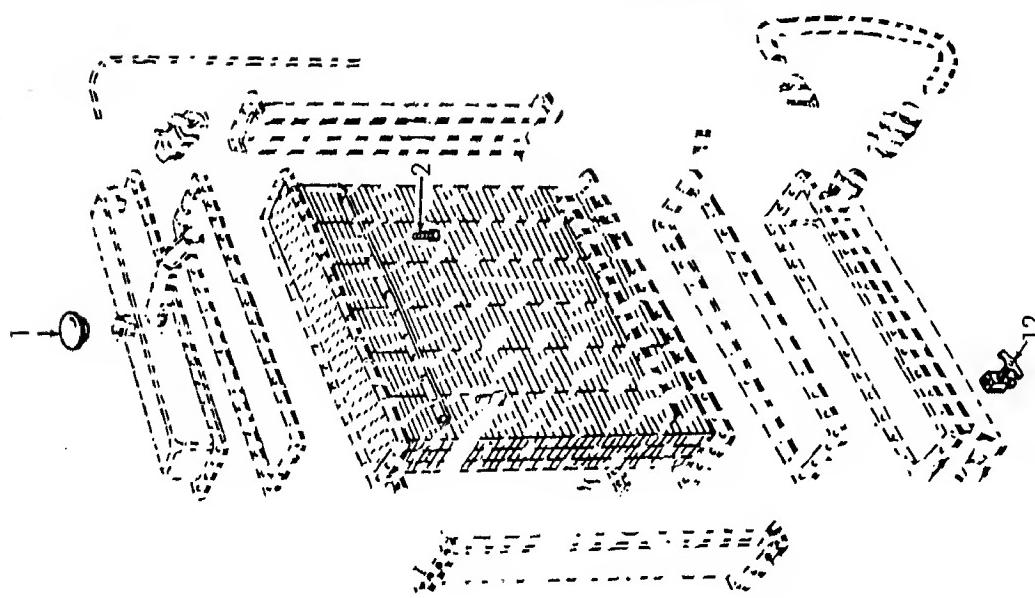
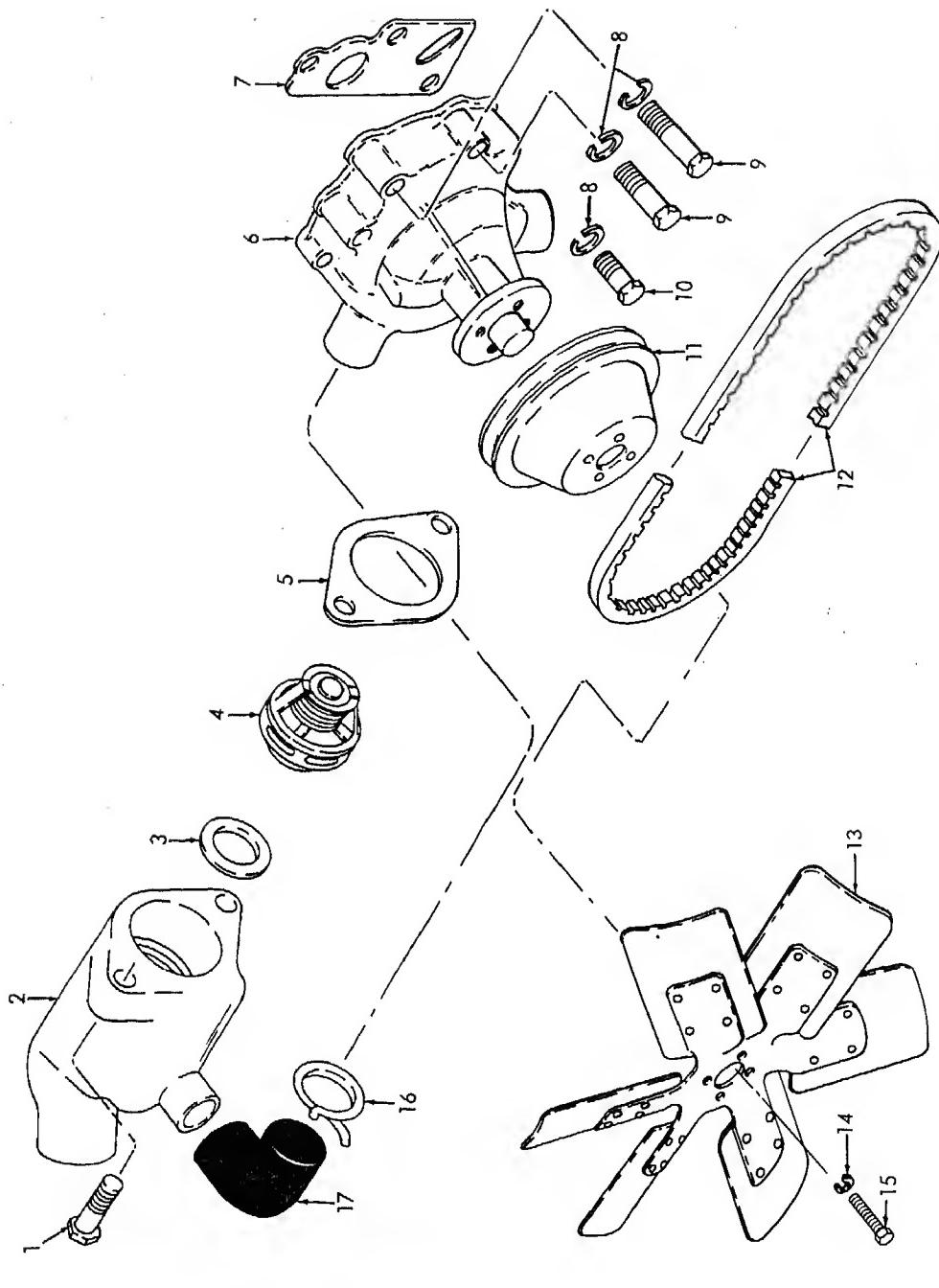


Figure 10. Radiator Shroud and Guards for Symbol (B).





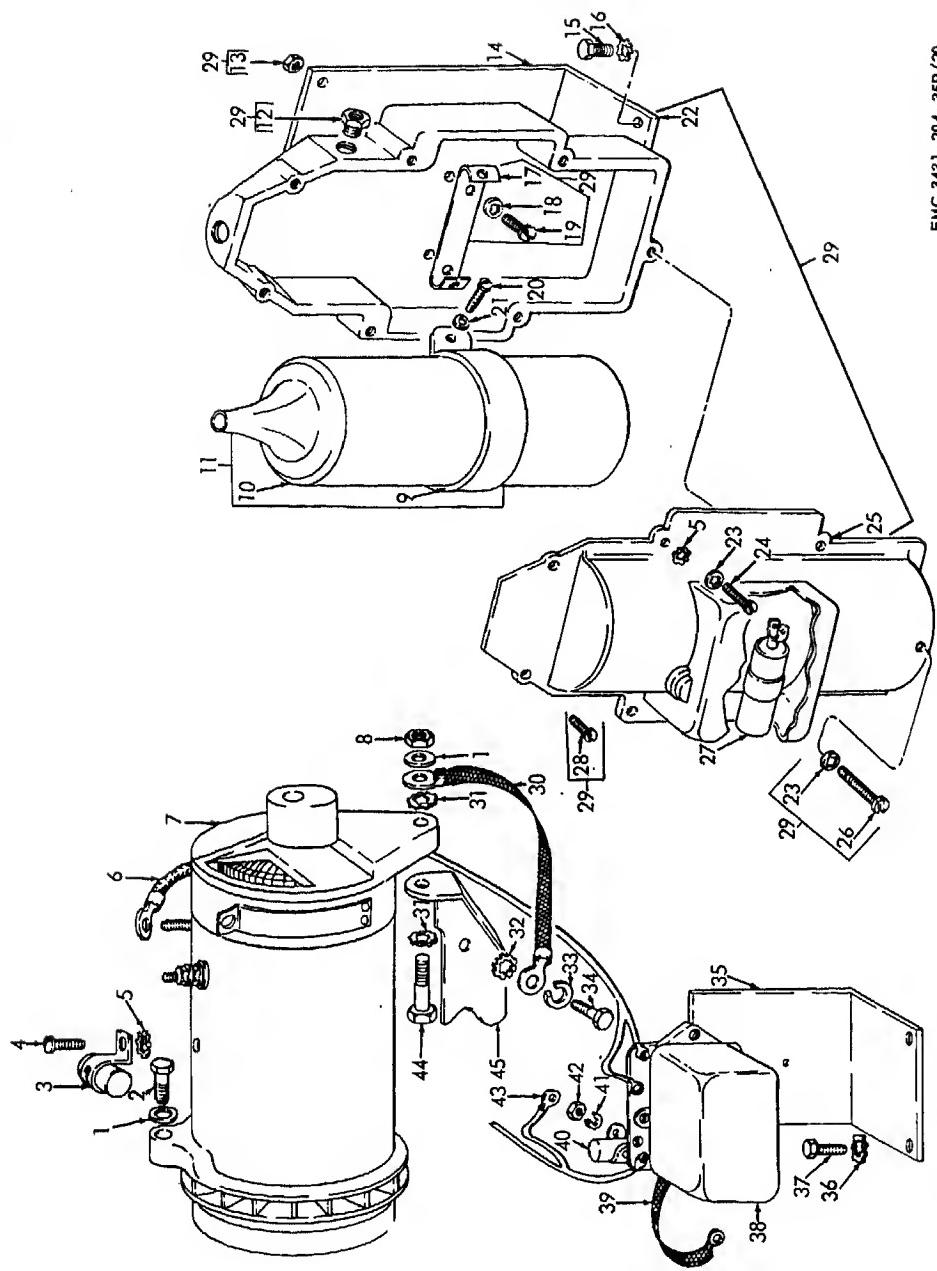
INDEX TO PARTS, FIGURE 11

Reference Number	Functional Group	Item Name
1	0506	SCREW
2	0506	ELBOW
3	0506	WASHER
4	0506	THERMOSTAT
5	0506	GASKET
6	0504	PUMP
7	0504	GASKET
8	0504	WASHER
9	0504	SCREW
10	0504	SCREW
11	0505	PULLEY
12	0505	BELT
13	0505	FAN
14	0505	WASHER
15	0505	SCREW
16	0503	CLAMP
17	0503	HOSE

Figure 11. Water Pump, Fan, and Thermostat.

## TM 5-3431-204-20P

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT	ILLUS. TRATIONS
TECHNICAL SERVICE SOURCE	RECOVERY-ABILITY-RECOVER		15 DAYS ORGANIZATIONAL MAINTENANCE 2ND ECH	FIG. NO.
MATERIALS RECEIVED	UNIT OF ISSUE	EXPIRED-A. EXPIRED-B. EXPIRED-C.	1-5 EQP	6-10 EQP
0504 - WATER PUMP				
X1	2930-215-5121	GASKET: water pump to cylinder block (Component of GASKET SETS, Stock No. 2805-353-8007 and Stock No. 2805-620-0098, See Group 0100)	(74865) 637440	1
P1	0	2930-172-9509 PUMP, WATER	(74865) 1064925	1
9	X2 0	5205-017-5239 SCREW, MACHINE: water pump mtg, cadmium or zinc plated; 3/8-16 thd size; 1 1/8 in. lg		2
9	X2 0	5305-286-1502 SCREW, MACHINE: water pump mtg, cadmium or zinc plated; 3/8-16 thd size; 2 in. lg		1
9	X2 0	5310-637-9541 WASHER, LOCK: water pump mtg screw, cadmium-chromate; 0.332 in. id, 0.688 in. od, 0.094 in. thk	(74865) 120382	3
0505 - FAN ASSEMBLY				
P	0	3030-529-1220 BELT, V: fan and generator	(74865) 1116206	1
X2	0	2930-173-2056 FAN GUARD ASSEMBLY, FAN	(74865) 595295	1
X2	0		"A" (28835) DW5329A	1
X1			"A" (28835) DW5330A	1
X1			"A" (28835) DW5331A	1
9	X2 0	5310-011-0633 NUT, PLAIN, HEXAGON: fan guard mtg screw, No. 10-24 thd size	"A"	2
X2	0	3020-366-6466 PULLEY, GROOVE: fan	(74865) 670500	1
9	X2 0	5305-011-0501 SCREW, MACHINE: fan guard mtg, No. 10-24 thd size; 1/2 in. lg	"A"	2
9	X2 0	5305-275-9106 SCREW, MACHINE: fan mtg to water pump hub, 5/16-18 thd size; 5/8 in. lg	"A"	4
9	X2 0	5305-012-5985 SCREW, TAPPING, THREAD FORMING: fan guard mtg, cadmium or zinc plated; No. 8-32 thd size; 1/4 in. lg	"A"	4
9	X2 0	5310-012-0214 WASHER, LOCK: fan mtg screw to water pump hub, cadmium or zinc-chromate; 0.319 in. id, 0.591 in. od, 0.078 in. thk	(74865) 120214	4
0506 - WATER MANIFOLDS, HEADERS, THERMOSTATS AND HOUSING, GASKETS				
X2	0	2805-353-7904 ELBOW, WATER OUTLET: cylinder water outlet	(74865) 1116319	1
X1		GASKET: cylinder water outlet elbow	(74865) 50082	1
		(Component of GASKET SETS, Stock No. 2805-560-9323, Stock No. 2805-353-8007, Stock No. 2805-620-0098, and Stock No. 2805-024-2076, See Group 0100).		
9	X2 0	5305-296-1502 SCREW, MACHINE: water outlet elbow mtg, cadmium or zinc plated; 3/8-16 thd size; 2 in. lg		2
P1	0	6680-514-3995 THERMOSTAT, FLOW CONTROL: 180 deg F	(74865) 1124989	1
X1		WASHER, NONMETALLIC: thermostat, rubber; 1 23/64 in. id, 1 55/64 in. od, 3/32 in. thk	(74865) 8633220	1
		(Component of GASKET SETS, Stock No. 2805-560-9323 and Stock No. 2805-024-2076, See Group 0100)		



INDEX TO PARTS, FIGURE 12

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	0601	WASHER	1	0601	WASHER	1	0615	CABLE AY
2	0601	BOLT	2	0601	CAPACITOR	2	0601	BOLT
3	0615	SCREW	3	0615	WASHER	3	0601	WASHER
4	0615	WASHER	4	0615	CABLE AY	4	0601	WASHER
5	0615	SCREW	5	0615	WASHER	5	0601	WASHER
6	0615	CABLE AY	6	0615	WASHER	6	0601	WASHER
7	0601	GENERATOR AY	7	0601	NUT	7	0601	ADAPTER
8	0601	BRACKET	8	0604	COIL	8	0601	NUT
9	0604	BRACKET	9	0604	COIL	9	0601	BRACKET
10	0604	COIL	10	0604	COIL	10	0601	SCREW
11	0604	ADAPTER	11	0604	ADAPTER	11	0601	WASHER
12	0615	NUT	12	0615	SCREW	12	0601	WASHER
13	0615	BRACKET	13	0615	SCREW	13	0601	WASHER
14	0615	SCREW	14	0615	SCREW	14	0601	WASHER
15	0615	WASHER	15	0615	SCREW	15	0601	WASHER
16	0615	WASHER	16	0615	SCREW	16	0601	WASHER
17	0615	WASHER	17	0615	SCREW	17	0601	WASHER
18	0615	WASHER	18	0615	SCREW	18	0601	WASHER
19	0615	SCREW	19	0604	SCREW	19	0601	WASHER
20	0604	WASHER	20	0604	SCREW	20	0601	WASHER
21	0604	SCREW	21	0604	SCREW	21	0601	WASHER
22	0615	SHIELD	22	0615	SCREW	22	0601	WASHER
23	0615	WASHER	23	0615	SCREW	23	0601	WASHER
24	0615	SCREW	24	0615	SCREW	24	0601	WASHER
25	0615	SHIELD	25	0615	SCREW	25	0601	WASHER
26	0615	CAPACITOR	26	0615	SCREW	26	0601	WASHER
27	0615	SCREW	27	0615	SCREW	27	0601	WASHER
28	0615	SHIELD	28	0615	SCREW	28	0601	WASHER
29	0615	LEAD	29	0615	SCREW	29	0601	WASHER
30	0601	WASHER	30	0601	SCREW	30	0601	WASHER
31	0601	WASHER	31	0601	SCREW	31	0601	WASHER
32	0601	WASHER	32	0601	SCREW	32	0601	WASHER
33	0601	SCREW	33	0601	SCREW	33	0601	WASHER
34	0602	SCREW	34	0602	SCREW	34	0601	WASHER
35	0602	BRACKET	35	0602	SCREW	35	0601	WASHER
36	0602	WASHER	36	0602	SCREW	36	0601	WASHER

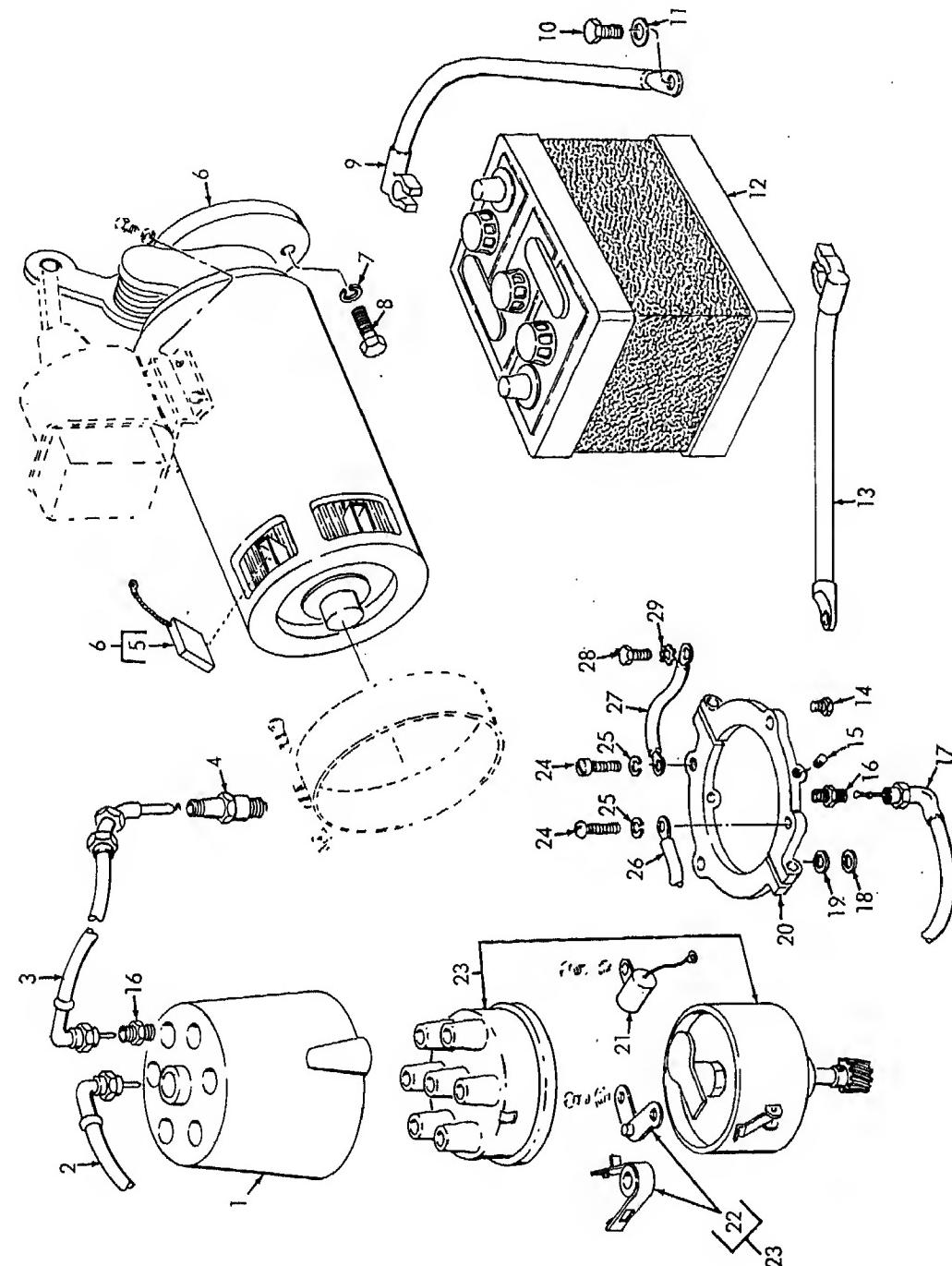
Figure 12. Coil, Regulator, and Generator.

## INDEX TO PARTS, FIGURE 12 (cont)

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
40	0615	CAPACITOR	41	0615	WASHER	42	0615	NUT
43	0615	CABLE AY	44	0601	BOLT	45	0601	BRACKET

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			ILLUS. TRATIONS
			15 DAYS MAINTENANCE	2ND ECH	1-5 EQP 6-10 EQP	
X2 0	5306-282-9645	BOLT, MACHINE: generator mtg, cadmium or zinc plated; 5/16-24 thd size; 1 1/4 in. lg	(74865) 123774	2	*	*
9 X2 0	5306-680-6004	BOLT, MACHINE: generator strap, cadmium or zinc-chromate; 5/16-18 thd size; 3/4 in. lg	"A" (74865) 122607 (74865) 667751	1	*	*
X2 0	2920-532-8941	BRACKET, GENERATOR	(74865) 1330241	1	*	*
P1 0	R 2920-374-3702	GENERATOR, ENGINE ACCESSORY (fungus treated)	(74865) 1330241	1	*	*
		(Includes component of PARTS KIT, Stock No. 2920-723-0427)				
Z 0		GENERATOR ASSEMBLY	"B" (74865) 1257392	1	*	12 7
		(Replaced by GENERATOR ASSEMBLY, Stock No. 2920-374-3702)				
X2 0		NUT: generator armature, pulley	(19728) GBM210	1	*	*
9 X2 0	5310-012-0368	NUT, PLAIN, HEXAGON: generator mtg screw, cadmium or zinc-chromate; 5/16-24 thd size	(74865) 120368	2	*	*
P 0	2920-723-0227	PARTS KIT, ENGINE GENERATOR	(81336) KIT19728-12	1	*	*
X1		BEARING, A.B.S. BRONZE	(19728) GGU58A	1		
X1	2920-293-5041	BEARING, SLEEVE (1)	(19728) GBFT9	0		
X1		BRUSH SET: generator	(19728) GGD2012AS	1		
X1	5910-353-7172	INSULATOR, BUSHING (2)	(19728) GGU52	0		
X1	5340-282-5560	RING, RETAINING ARMATURE	(19728) GAR171A	1		
X1	2920-363-3929	SPRING, HELICAL, TORSION (1)	(19728) GRW45A	0		
X1	2920-664-4267	SPRING, HELICAL, TORSION	(19728) GGY45A	2		
X1		WASHER (1)	(19728) GAP95	0		
X1		WASHER, FELT: drive head	(19728) GGU64A	2		
X1	5330-291-4612	WASHER, NONMETALLIC (1)	(19728) GGU530	0		
X1	5350-324-3243	WASHER, NONMETALLIC (1)	(19728) GDM44	0		
X2 0	2920-331-7648	PULLEY, GENERATOR	"B" (74865) 1266943 "A" (74865) 1402508	1	*	*
X2 0		PULLEY, GENERATOR		1	*	*
X2 0	5305-353-7942	SCREW, ASSEMBLED WASHER: generator adjusting strap, 5/16-18 thd size; 15/16 in. lg	"B" (74865) 1123371	1	*	*
9 X2 0	5305-266-6292	SCREW, CAP, HEXAGON HEAD: generator bracket mtg, cadmium plated; 7/16-14 thd size; 1 in. lg	(74865) 122253 (74865) 1321959	2	*	12 34
X2 0		STRAP: generator adjusting		1	*	*
9 X2 0	5310-017-8576	WASHER, LOCK: generator bracket mtg screw, cadmium or zinc plated; 0.456 in. id. 1.12 in. od. 0.046 in. thk	"A"	2	*	12 32
9 X2 0	5310-194-0743	WASHER, LOCK: generator mtg screw, cadmium or zinc-chromate; 0.466 in. id. "B"		2	*	12 33
9 X2 0	5310-530-9309	WASHER, LOCK: generator pulley locknut, cadmium or zinc-chromate;	(74865) 625948	1	*	*
9 X2 0	5310-013-0485	WASHER, LOCK: generator strap, cadmium or zinc-chromate; 0.326 in. id. 0.599 in. od. 0.031 in. thk	"A" (74865) 178532	1	*	12 31

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			
			ILLUS. TRACTIONS	15 DAYS ORGANIZATIONAL MAINTENANCE	FIG. NO.	ITEM NO.
X2 0	5310-275-6616	WASHER, SPRING TENSION: generator strap, 0.332 in. id, 13/16 in. od, 0.081 in. thk	"A" (74865) 1123372	2	*	*
				2	*	12 1
		0601 - GENERATOR (cont)				
		0602 - GENERATOR REGULATOR				
X2 0	2920-732-7707	BRACKET: voltage regulator mtg	(26835) 5CWB14	1	*	12 3S
P1 0	2920-640-7719	REGULATOR, VOLTAGE	(74865) 1330242	1	*	12 38
X1		GASKET: regulator cover	(1972B) VR550C	1		
9 X2 0	5305-017-9791	SCREW, CAP, HEXAGON HEAD: regulator bracket mtg, 1/4-20 thd size; 1/2 in. lg		2	*	12 37
9 X2 0	5305-042-6950	SCREW, CAP, HEXAGON HEAD: regulator mtg, cadmium or zinc plated; 3/8-24 thd size; 1/2 in. lg	(74865) 123382	2	*	*
9 X2 0	5310-528-5977	WASHER, FLAT: regulator mtg screw, cadmium or zinc-chromate; 0.406 in. id, 0.812 in. od, 0.065 in. thk	(74865) 120394	2	*	*
9 X2 0	5310-017-3124	WASHER, LOCK: regulator bracket mtg, 0.262 in. id, 0.742 in. od, 0.036 in. thk	(74865) 120392	2	*	*
9 X2 0	5310-637-9541	WASHER, LOCK: regulator mtg screw, cadmium-chromate; 0.382 in. id, 0.688 in. od, 0.094 in. thk	(74865) 120392	2	*	*
		0603 - STARTER				
P 0	2920-087-4862	MOTOR REPAIR KIT: starter	"B" (81336) KIT1972B-52	1	*	*
II XI	5977-280-3950	BRUSH SET, ELECTRICAL CONTACT: starter	"B" (1972B) M22012BS	1		13 5
II XI	S975-143-5299	BUSHING, ELECTRICAL CONDUCTOR: insulation, terminal stud	"B" (1972B) MAB85	1		
Y1	2920-695-7139	SPRING, BRUSH	"B" (1972B) MZ19C	4		
9 XI	S910-220-6456	WASHER, FLAT: drive end	"B" (1972B) MAB8A	1		
XI	S930-255-5124	WASHER, NONMETALLIC: commutator end (1) (as required)	"B" (1972B) MU54B			
XI	S930-291-5921	WASHER, NONMETALLIC: commutator end (1) (as required)	"B" (1972B) MU54			
XI	S930-424-3278	WASHER, NONMETALLIC: insulation, terminal stud, outer	"B" (1972B) MAB31A	1		
XI	S930-291-4803	WASHER, NONMETALLIC: terminal stud, inner	"B" (1972B) MCB39A	1		
XI	2920-364-5974	WICK	"B" (1972B) MAB110	1		
P 0	2920-715-0426	PARTS KIT, ELECTRICAL ENGINE STARTER: starter model MCL6115T	"A" (1972B) KIT1972B-13	1	*	*
II XI	S977-638-4296	BRUSH SET, ELECTRICAL CONTACT	(1972B) M22012DS	1		
XI	2920-353-7933	END BEARING, ELECTRICAL, ROTATING EQUIPMENT: commutator end	"A" (1972B) MCL203DC	1		
II XI	S977-695-7139	SPRING, HELICAL, TORSION	"A" (1972B) MZ19C	4		
XI	2920-364-S974	WICK	"A" (1972B) MAB110	1		
9 XI	S910-220-6456	WASHER, FLAT: armature drive end	"A" (1972B) MAB8A	1		
XI	S930-285-6578	WASHER, NONMETALLIC: commutator end	"A" (1972B) MU54	1		
XI	S930-291-S921	WASHER, NONMETALLIC: commutator end (as required)	"B" (1972B) MU54F			
9 XI	S930-017-5257	SCREW, MACHINE: starter mtg	(74865) 122567	2		13 B
P1 0 R	2920-248-3648	STARTER, ENGINE, ELECTRICAL	"B" (74865) 1311459	1	*	*
		(Includes components of REPAIR KIT, Stock No. (81336) KIT1972B-52)		13 6		



INDEX TO PARTS, FIGURE 13

Reference Number	Functional Group	Item Name
1	0615	SHIELD
2	0604	CABLE ASY
3	0604	CABLE SET
4	0604	SPARK PLUG
5	0603	BUSH SET
6	0603	STARTER
7	0603	WASHER
8	0603	SCREW
9	0612	LEAD
10	0612	SCREW
11	0612	WASHER
12	0612	BATTERY
13	0612	LEAD
14	0615	PLUG
15	0615	SEESCREW
16	0615	ADAPTER
17	0604	CABLE ASY
18	0615	WASHER
19	0615	SCREEN
20	0615	COLLAR
21	0604	CAPACITOR
22	0604	CONTACT SET
23	0604	DISTRIBUTOR
24	0615	SCREW
25	0615	WASHER
26	0615	LEAD
27	0615	LEAD
28	0615	SCREW
29	0615	WASHER

Figure 13. Starter, Battery, and Distributor.

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS		ILLUS-TRATIONS
			15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	
			1-5 EQP	6-10 EQP	
X1	2920-428-4662	BAND, COVER, STARTING MOTOR	"B" (19728) MAW24	1	
P1 0 R	2920-353-7398	STARTER, ENGINE, ELECTRICAL (Includes components of PARTS KIT, Stock No. 2920-715-0426)	"A" (74865) 1330243	1	*
X1	2920-353-7487	RELAY, SOLENOID, ENGINE STARTER, ELECTRICAL	"A" (19728) SSX103T	1	*
9 X1	5310-194-0743	WASHER, LOCK: starter mtg screw		2	13
				7	
		0603 - STARTER (cont)			
X2 0	2920-371-5450	CABLE SET, SPECIAL PURPOSE ELECTRICAL: ignition, shielded	"G" (74865) 1092857	1	*
P1 0	2920-371-5450	CABLE: ignition, No. 1, shielded	(29835) DM6381IA	1	*
X1		CABLE: ignition, No. 2, shielded	(29835) DM6381AA	1	
X1		CABLE: ignition, No. 4, shielded	(29835) DM6381AB	1	
X1		CABLE: ignition, No. 5, shielded	(29835) DM6381AE	1	
X1	2920-732-7708	CABLE ASSEMBLY: ignition, No. 3, shielded	(29835) DM6381AF	1	
X1	2920-371-5451	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: coil to distributor	(29835) DM6381AC	1	
X1	2920-371-5452	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: primary	(29835) DM6381AG	1	
X2 0	2920-033-5033	STRAP, BUNDLING: distributor shield to engine block	(29835) DM6319	1	
A 0	2920-033-5033	COIL, IGNITION: w/clamp	"A" (74865) 1330244	1	
P1 0	2920-771-9092	BRACKET, IGNITION COIL	"A"	1	*
P1 0	2920-224-5332	COIL, IGNITION	"A"	1	*
A 0	2920-257-1355	COIL, IGNITION: w/clamp	"B" (74865) 1300667	1	
P1 0	2920-771-9092	BRACKET, IGNITION COIL	"B"	1	*
P1 0	2920-224-5332	COIL, IGNITION	"B"	1	*
P1 0	2920-033-5074	DISTRIBUTOR, IGNITION	"B" (19728) IAM4203	1	*
		(Includes components of PARTS KIT, Stock No. 2920-723-3128)			
P1 0 R	2920-386-3221	OISTRIBUTOR, IGNITION SYSTEM	"A" (74865) 1321787	1	*
		(Includes components of PARTS KIT, Stock No. 2920-715-0430)			
X1		ARM, ADVANCE	"A" (19728) IG511A	1	
X1	4730-223-6428	CUP, OIL LUBRICATING	"A" (19728) X1590	1	
X1		MASHER, FLAT: advance arm	"A" (19728) SM634B	1	
9 Y2 0	5310-012-0368	NUT, PLAIN, HEXAGON: coil mg bracket, cadmium or zinc-chromate; 5/16-24 thd size	"B" (74865) 120368	2	*
9 X2 0	5310-012-0368	NUT, PLAIN, HEXAGON: coil mg bracket stud, cadmium or zinc-chromate; 5/16-24 thd size	"A" (19728) 102368	1	*
X2 0	5310-266-0458	NUT, PLAIN, HEXAGON: coil mtg, cadmium plated; 1/4-28 thd size	"A" (74865) 120367	2	*
9 X2 0	5310-042-6903	NUT, PLAIN, HEXAGON: coil terminal stud, cadmium or zinc plated; No. 10-32 thd size	(74865) 120614	2	*

P	0	2920-715-0430	PARTS KIT, IGNITION DISTRIBUTOR	"A" (81336) KIT1972B-16	1	*	*	
X1		3120-505-8712	BEARING, SLEEVE: base assembly, absorbic bronze	"A" (1972B) IGS79A	2			
11	X1	5910-358-6842	CAPACITOR, FIXED, PAPER DIELECTRIC	"A" (1972B) IAT3076DS	1			13 21
X1		2920-480-7472	CONTACT SET, DISTRIBUTOR	"A" (1972B) IGP3029WS	1			13 22
X1		5340-200-7415	RING, RETAINING: cam retaining	"A" (1972B) IGS680	1			
X1		2920-362-3002	ROTOR, IGNITION DISTRIBUTOR	"A" (1972B) IGS1016B	1			
X1		2920-630-9868	SPACER, DRIVE SHAFT	"A" (1972B) IGS99	1			
X1		5310-530-7283	WASHER, FLAT: drive shaft lower	"A" (1972B) IGS90	1			
9	X1	5310-425-4576	WASHER, SHOULDER: inner drive shaft upper	"A" (1972B) IAO-10	1			
9	X1	3120-428-4577	WASHER, THRUST: outer drive shaft upper	"A" (1972B) IAO-11	1			
10	X1	9390-360-6631	WICK, FELT	"A" (1972B) IGS117	1			
X1		2920-281-8623	WICK, FELT: cam sleeve	"A" (1972B) IGS28	1			
P	0	2920-723-3128	PARTS KIT, IGNITION DISTRIBUTOR	"B" (61336) KIT1972B-21	1	*	*	
X1			BEARING: base assembly, absorbic bronze	"B" (1972B) IGS7A	2			
11	X1	5910-161-8881	CAPACITOR, FIXED, PAPER DIELECTRIC	"B" (1972B) IGM3139	1			13 21
X1		2920-288-3143	CONTACT SET, DISTRIBUTOR	"B" (1972B) IGP3029ES	1			13 22
X1		5970-360-8101	INSULATOR, BUSHING: insulating, terminal stud	"B" (1972B) IAD10	1			
X1		5970-360-8105	INSULATION, PLATE: terminal stud, inner	"B" (1972B) IAD8	1			
X1		5340-200-7415	RING, RETAINING: cam	"B" (1972B) IGS680	1			
X1		2920-640-7295	ROTOR, IGNITION DISTRIBUTOR	"B" (1972B) IGS1016B	1			
X1		2920-630-9888	SPACER, DRIVE SHAFT: cam	"B" (1972B) IGS99	1			
9	X1	5310-530-7283	WASHER, FLAT: drive shaft, lower	"B" (1972B) IGS90	1			
X1			WASHER: insulating, terminal stud	"B" (1972B) IDL9	1			
X1		5310-358-8345	WASHER, RECESSED: drive shaft, upper	"B" (1972B) IGS104	1			
X1		5310-428-4576	WASHER, SHOULDERED (1)	"(1972B) IAO-10	0			
X1		3120-428-4577	WASHER, THRUST	"B" (1972B) IAO-11	1			
10	X1	9390-360-6631	WICK, FELT	"B" (1972B) IGS117	1			
X1		2920-281-8623	WICK, FELT: cam sleeve	"B" (1972B) IGS28	1			
X2	0	2920-217-3505	PIPE: distributor oil cup extension	"A" (28835) DM6357	1	*	*	
X2	0		PLATE: distributor lock	"A" (74865) 1502251	1	*	*	
X2	0		PLATE: distributor lock	"B" (74865) 866069	1	*	*	
X2	0		POINTER: distributor lock plate	"A" (74865) 1323934	1	*	*	
A	0	5305-208-1503	SCREW, ASSEMBLED WASHER: distributor hold down	"A" (74865) 937471	1			
9	X2	0	5305-639-8115	SCREW, CAP, HEXAGON HEAD: cadmium or zinc-chromate; 1/4-20 thd size; "A"	1	*	*	
			3 1/4 in. lg					
9	X2	0	5310-012-1753	WASHER, LOCK: cadmium or zinc-chromate, 0.262 in. id, 0.502 in. od, "A"	1	*	*	
			0.025 in. thk					
9	X2	0	5305-262-9666	SCREW, MACHINE: coil mfg, 1/4-20 thd size; 1/2 in. lg No. 10-32 thd size; 3/8 in. lg	2	*	*	12 20
9	X2	0	5305-776-7680	SCREW, MACHINE: distributor clamp, cadmium plated; 1/4-20 thd size; 5/8 in. lg	1	*	*	
9	X2	0	5305-013-2259	SCREW, MACHINE: distributor hold down, cadmium or zinc plated; 1/4-20 thd size; 5/8 in. lg	1	*	*	
9	X2	0	5305-013-2900	SCREW, MACHINE: distributor terminal wire, cadmium or zinc plated; No. 10-32 thd size; 3/8 in. lg	1	*	*	
X2	0		SLEEVE: ignition coil primary cable terminal	"A" (74865) 1264933	1	*	*	
X2	0		SLEEVE: ignition coil primary cable terminal	"B" (74865) 926026	1	*	*	
X2	0		SLEEVE: ignition coil, secondary cable	(74865) 1345631	1	*	*	
X2	0		SPARK PLUG	"A" (1972B) AR4S	6	6	12	13 4
P	0	2920-246-1618	(Minimum stockage of 6 is authorized)					

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS				ILLUS-TRATIONS
			1-5 EQP	6-10 EQP	15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	
		0604 - IGNITION COMPONENTS (cont)					
X1	5330-245-5503	GASKET: spark plug (Component of GASKET SET, Stock No. 2805-353-8007. See Group 0100)	"A" (74865) 150189		6		
P 0	2920-294-3867	SPARK PLUG (Minimum stockage of 6 is authorized)	"B" (19728) ARBS		6	6	13 4
X1	5330-245-5503	GASKET: spark plug (Component of GASKET SET, Stock No. 2805-620-0098. See Group 0100)	"B" (74865) 150189		6		
9 X2 0	5307-010-3173	STUD, PLAIN: coil mtg bracket, one end 5/16-18 tbd size; other end 5/16-24 tbd size; 1 1/4 in. lg	"A" (74865) 103173		1	*	*
9 X2 0	5307-010-3173	STUD, PLAIN: coil mtg bracket, one end, 5/16-18 tbd size; other end, 5/16-24 tbd size; 1 1/4 in. lg	"B" (74865) 103173		2	*	*
X2 0		TOBE: ignition cables	"A" (74865) 1188452		1	*	*
9 X2 0	5310-044-6192	WASHER, FLAT: distributor clamp, brass; 0.265 in. id, 0.425 in. od, 0.049 in. thk	"A" (74865) 1188452		1	*	*
9 X2 0	5310-194-1640	WASHER, FLAT: distributor clamp cadmium or zinc-chromate; 0.281 in. id, 0.625 in. od, 0.065 in. thk	"B" (74865) 1345632		1	*	*
X2 0		WASHER: ignition coil secondary cable	(74865) 1345632		1	*	*
9 X2 0	5310-013-8485	WASHER, LOCK: coil mtg bracket, cadmium or zinc-chromate; 0.326 in. id, 0.599 in. od, 0.031 in. thk	(74865) 130485		1	*	*
9 X2 0	5310-013-8485	WASHER, LOCK: coil mtg bracket stud, cadmium or zinc-chromate; 0.326 in. id, 0.599 in. od, 0.031 in. thk	"B" (74865) 130485		2	*	*
9 X2 0	5310-582-5965	WASHER, LOCK: coil mtg, cadmium-chromate; 0.255 in. id, 0.493 in. od, 0.062 in. thk	(74865) 130479		2	*	12 21
9 X2 0	5310-582-5965	WASHER, LOCK: distributor clamp, cadmium-chromate; 0.255 in. id, 0.493 in. od, 0.062 in. thk	"B" (74865) 120380		1	*	*
9 X2 0	5310-013-1098	WASHER, LOCK: distributor clamp, cadmium or zinc-chromate; 0.255 in. id, "A" (74865) 131098			1	*	*
9 X2 0	5310-013-8479	WASHER, LOCK: distributor terminal wire, cadmium or zinc-chromate; 0.200 in. id, 0.402 in. od, 0.023 in. thk	(74865) 130479		3	*	*
X2 0	5330-298-0793	WASHER, NONMETALLIC: distributor to crankcase, cork; 1.375 in. id, 1.395 in. od, 3/16 in. thk	(74865) 41928		1	*	*
		0607 - INSTRUMENT OR ENGINE CONTROL PANEL					
11 P1 0	6625-252-5545	AMMETER: battery charging 30-0-30	(28835) 5CM1046A		1	*	*
11 P1 0	5930-272-1331	SWITCH, LOCK, IGNITION	(28835) DM1014		1	*	17 12
11 P1 0	5930-256-1109	SWITCH, PUSH: start, dc, 20v, 20 amps	(28835) E5570A		1	*	17 13
11 P1 0	5930-258-5541	SWITCH, TOGGLE: engine canopy lights	(28835) FM1312		1	See Group 9901	17 14
P 0	6240-155-8694	LAMP, INCANDESCENT: canopy light, 6-8v. No. 1130	0609 - LIGHTS		3	*	*

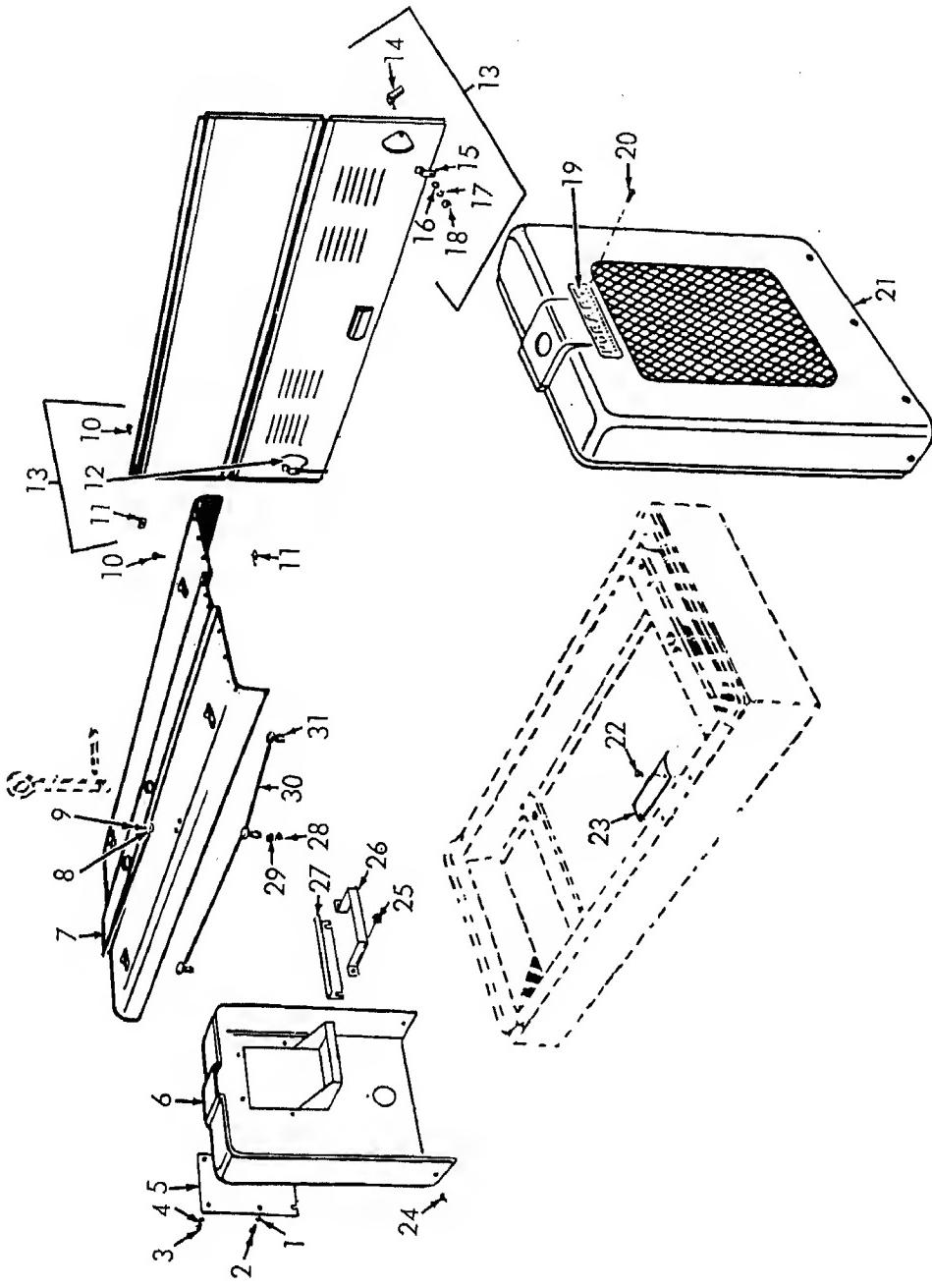


SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT				ILLUSTRATIONS
			15 DAYS ORGANIZATIONAL MAINTENANCE	1-5 ECH	FIG. NO.	ITEM NO.	
9 X2 0	5335-017-2937	SCREEN: vent, distributor shield	(28835) DM6322	1	*	*	13 19
9 X2 0	5305-017-9837	SCREEN CAP, HEXAGON HEAD: distributor bonding strap to engine block, 3/16 thd size; 3/4 in. lg		1	*	*	13 28
9 X2 0	5305-021-3761	SCREEN, CAP, HEXAGON HEAD: generator bond lead, 7/16-14 thd size; 1 in. lg		2	*	*	
9 X2 0	5305-017-9791	SCREW, CAP, HEXAGON HEAD: ignition coil shield mtg, 1/4-20 thd size; 1/2 in. lg		2	*	*	12 15
9 X2 0	5305-010-0765	SCREEN, MACHINE: bonding strap, distributor shield to ignition coil, No. 10-32 thd size; 5/8 in. lg		1	*	*	12 24
9 X2 0	5305-206-3339	SCREW, MACHINE: bonding strap, distributor shield to ignition coil, passivated finish, No. 10-32 thd size; 3/4 in. lg	"A"	1	*	*	
9 X2 0	5305-150-9611	SCREW, MACHINE: bonding strap distributor shield to ignition coil, No. 10-32 thd size; 3/4 in. lg	"B"	1	*	*	
9 X2 0	5305-022-6404	SCREW, MACHINE: bonding strap, distributor to ignition coil, No. 10-32 thd size; 5/8 in. lg	"B"	1	*	*	
9 X2 0	5305-011-0499	SCREW, MACHINE: capacitor mtg, No. 10-24 thd size; 3/8 in. lg	"B"	1	*	*	
9 X2 0	5305-011-0489	SCREW, MACHINE: distributor bonding strap No. 10-24 thd size; 3/4 in. lg	"G"	2	*	*	13 24
9 X2 0	5305-011-0502	SCREW, MACHINE: distributor bonding strap, No. 10-24 thd size; 3/4 in. lg	"A"	1	*	*	
9 X2 0	5305-010-0749	SCREEN, MACHINE: generator capacitor mtg, No. 8-32 thd size; 1/4 in. lg	"A"	1	*	*	12 4
9 X2 0	5305-011-3956	SCREW, MACHINE: regulator bond lead, 1/4-20 thd size; 7/8 in. lg		2	*	*	
9 X2 0	5305-285-4620	SETSCREW: distributor shield collar, cadmium or zinc plated; 1/4-20 thd size; 7/8 in. lg					
X2 0	2920-371-5447	SHIELD, IGNITION SYSTEM, DISTRIBUTOR ADAPTER: spherical joint, distributor shield	(28835) DM6321	1	*	*	12 29
X2 0	2920-371-8968	SHIELD, IGNITION DISTRIBUTOR	(28835) DM6327	7	See Group	9901	12 12
X2 0	2920-371-5449	SHIELD ASSEMBLY, IGNITION COIL	(28835) DM6324	1	*	*	13 1
X2 0	5935-024-2198	ADAPTER, COIL TO DISTRIBUTOR LEAD: spark coil resistor mtg	(28835) DM6331	1	*	*	
X2 0	2920-371-5447	ADAPTER: spherical joint coil shield	(28835) DM6327	2	See Group	9901	
X2 0	5310-010-9084	BRACKET: mtg	(28835) DM6335	1	*	*	12 17
X2 0	5305-022-4592	NUT, PLAIN, HEXAGON: coil shield bracket, 1/4-20 thd size		2	*	*	12 13
X2 0	5305-275-3927	SCREW, MACHINE: shield top, coil, No. 10-24 thd size; 1 in. lg		5	*	*	12 19
X2 0	5305-011-0489	SCREW, MACHINE: shield top, coil, No. 10-24 thd size; 5/8 in. lg		1	*	*	12 28
X2 0	5305-022-4592	SCREW, MACHINE: shield top, coil, No. 10-24 thd size; 1 1/4 in. lg		1	*	*	12 26
X1	2920-371-5448	SHIELD, IGNITION COIL: bottom	(28835) DM6330	1			12 22
X1	P1 0	SHIELD: top, ignition coil	(28835) DM6329	1			12 25
9 X2 0	5310-011-5547	SUPPRESSOR, IGNITION INTERFERENCE: resistor coil to distributor head	(28835) DM6390	1	*	*	
9 X2 0	5310-010-6497	WASHER, LOCK: coil shield bracket, 0.262 in. id, 0.469 in. od, 0.251 in. thk		2	*	*	12 18
X2 0		WASHER, LOCK: shield top screw, 0.194 in. id, 0.337 in. od, 0.047 in. thk		6	*	*	12 23
X2 0		STRAP: bonding distributor shield to engine block	(28835) DM6319	1	*	*	

X2	0	5310-262-3001	WASHER, FLAT: vent, distributor shield. cadmium plated: 1/4 in. id. 29/64 in. od, 1/32 in. thk	(28835) DW6323	1	*	*	13	18
9	X2	0	5310-011-5547 WASHER, LOCK: bonding strap, distributor shield to ignition coil. 0.262 in. id. 0.469 in. od. 0.025 in. thk		2	*	*		
9	X2	0	5310-017-3122 WASHER, LOCK: bond strap, distributor shield to ignition coil screw; 0.200 in. id. 0.595 in. od. 0.031 in. thk		1	*	*	12	5
9	X2	0	WASHER, LOCK: capacitor mtg screw (Supplied under Stock No. 5310-017-3122)		2	*	*		
9	X2	0	5310-017-8554 WASHER, LOCK: distributor bonding strap screw. 0.391 in. id. 1.058 in. od. 0.046 in. thk		1	*	*	13	29
9	X2	0	5310-010-6497 WASHER, LOCK: distributor bonding strap. 0.194 in. id. 0.337 in. od.		2	*	*	13	25
9	X2	0	5310-017-8576 WASHER, LOCK: generator bond lead, cadmium or zinc plated; 0.456 in. id. 0.047 in. thk		2	*	*		
9	X2	0	5310-010-3322 WASHER, LOCK: generator bond lead, plain. 0.446 in. id. 0.764 in. od. 0.109 in. thk		2	*	*		
9	X2	0	5310-017-8367 WASHER, LOCK: generator capacitor mtg screw. 0.172 in. id. 0.690 in. od. 0.031 in. thk		1	*	*		
9	X2	0	5310-017-3124 WASHER, LOCK: ignition coil shield mtg screw. 0.262 in. id. 0.742 in. od. 0.036 in. thk		2	*	*	12	16
9	X2	0	5310-010-3319 WASHER, LOCK: regulator bond lead screw 0.255 in. id. 0.493 in. od. 0.062 in. thk		3	*	*		
9	X2	0	5310-017-3124 WASHER, LOCK: regulator bond lead screw. 0.262 in. id. 0.742 in. od. 0.036 in. thk		4	*	*	12	41
				GROUP 17 - BODY; CAB; HOOD; HULL 1700 - BODY, CAB, HOOD, HULL ASSEMBLIES					
9	X2	0	5306-577-5458 BOLT, MACHINE: hood clamping strap to radiator and rear strap to hood, 5/16-18 thd size; 1 in. lg	"B"	7	*	*	15	7
9	X2	0	5306-022-7776 BOLT, MACHINE: rear clamping strap to hood, cadmium or zinc plated; 5/16-18 thd size; 1 1/4 in. lg	"B"	3	*	*	15	23
X2	0	3431-902-6792 CANOPY, HOOD: rear	"B" (28835) DW1168C		1	*	*	15	22
X2	0	BAR: battery supporting	"B" (28835) DW1002		1	See Group	0612		
9	X2	0	5306-577-5458 BOLT, MACHINE: battery holder to rear panel, 5/16-18 thd size; 1 in. lg	"B"	2	See Group	0612		
9	X2	0	3432-325-5107 COVER, PLATE, ACCESS: battery HOLDER, BATTERY	"B"	1	See Group	0612		
11	X2	0	6140-029-0936 NUT, PLAIN HEXAGON: battery hold down clamp to rear panel. 5/16-18 thd size	"B"	2	See Group	0612		
9	X2	0	5310-010-2634 NUT, SELF-LOCKING, HEXAGON: battery holder to rear panel, 5/16-18 thd size	"B"	2	See Group	0612		
9	X2	0	5310-050-3270 SCREW, TAPPING, THREAD FORMING: battery access door to rear canopy, cadmium or zinc plated; 1/4-20 thd size; 3/8 in. lg	"B"	4	*	*	15	21
9	X2	0	5310-010-3319 WASHER, LOCK: battery access door to rear canopy. 0.255 in. id. 0.493 in. od. 0.062 in. thk	"B"	4	*	*	15	20
9	X2	0	3432-325-5107 COVER PLATE, ACCESS: battery	"A" (28835) DW999	1	*	*	14	5
9	X2	0	3431-047-4692 DOOR, HOOD	"B" (28835) DW3131A	2	*	*	15	4
X2	0	3432-325-5124 DOOR, HOOD: side	"A" (28835) DW924	2	*	*	14	13	
X2	0	HANDLE ASSEMBLY: door latch	"A" (28835) HF564	4	*	*	14	14	
X2	0	6115-321-4545							

PARTS, FIGURE 14

Functional Group.	Item Name
0612	WASHER
0612	SCREW
1700	SCREEN
1700	WASHER
5	1700 COVER
6	1700 PANEL
7	1700 PANEL
8	0609 WASHER
9	0609 SCREEN
10	1700 SCREW
11	1700 NUT
12	1700 LATCH
13	1700 DOOR
14	1700 HANDLE ASY
15	1700 LATCH
16	1700 WASHER
17	1700 WASHER
18	1700 NUT
19	2210 PLATE
20	2210 SCREW
21	1700 PANEL
22	0401 SCREW
23	0401 SHIELD
24	1700 SCREW
25	0612 NUT
26	0612 HOLDER
27	0612 BAR
28	0609 WASHER
29	0609 WIRING HARNESS
30	0609 LAMPHOLDER
31	0609



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Figure 14. Panels and Door for Symbol (A).

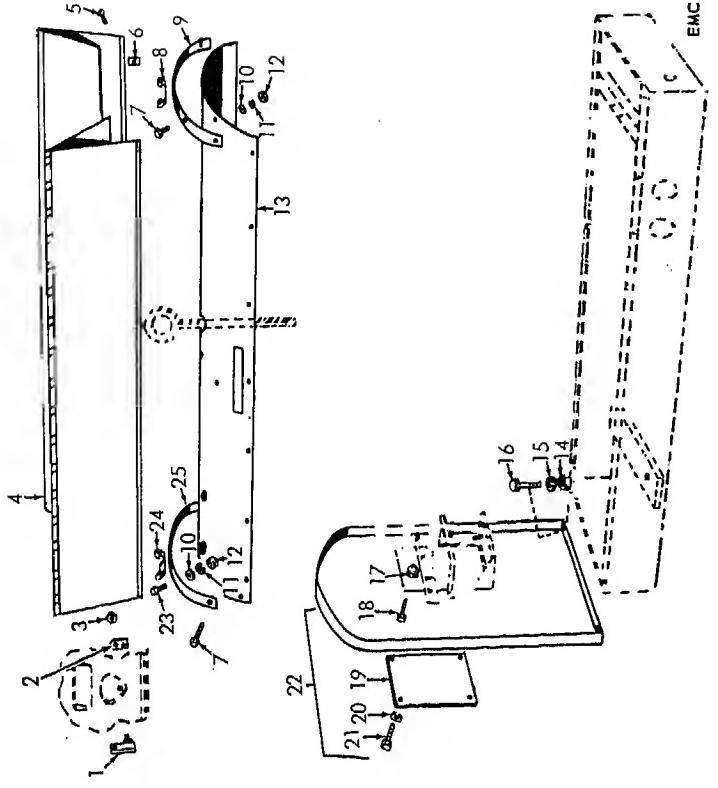


Figure 15. Side Panels and Canopy for Symbol (B).

## INDEX TO PARTS, FIGURE 15

Reference Number	Functional Group	Item Name
1	1700	HANDLE
2	1700	LATCH
3	1700	NUT
4	1700	DOOR
5	1700	SCREW
6	1700	NUT
7	1700	BOLT
8	1700	LOCK
9	1700	STRAP
10	1700	WASHER
11	1700	WASHER
12	1700	NUT
13	1700	PANEL
14	1700	NUT
15	1700	WASHER
16	1700	SCREW
17	0612	NUT
18	0612	BOLT
19	1700	COVER
20	1700	WASHER
21	1700	SCREW
22	1700	CANOPY
23	1700	BOLT
24	1700	LOCK
25	1700	STRAP

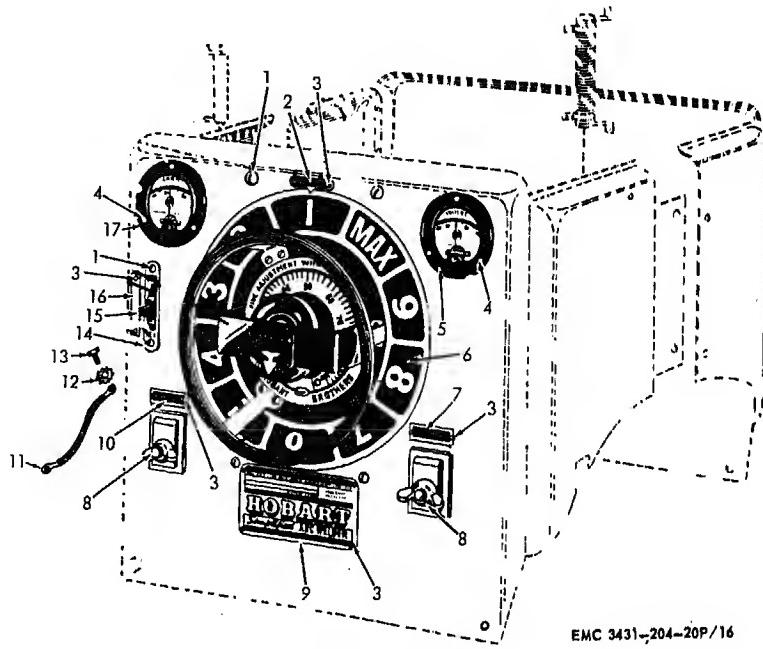
SOURCE CODES		FEDERAL STOCK NUMBER	RECOVERY ABILITY	MAINTENANCE SOURCE	GUIDE QUANTITIES PER MAJOR EQUIPMENT		ILLUS-TRATIONS
TECHNICAL SERVICE	MAINTENANCE				15 DAYS ORGANIZATION IN UNIT	15 DAYS MAINTENANCE	
ITEM NO.	2ND ECH	1-5 ECH	6-10 ECH	1-5 ECH	6-10 ECH	1-5 ECH	6-10 ECH
1700 - BODY, CAB, HOOD, HULL ASSEMBLIES (cont.)							
X2 0	LATCH, DOOR: left	"A" (28835) 3DW248	2	*	*	14	15
X2 0	LATCH, DOOR: right	"A" (28835) 3DW249	2	*	*	14	12
9 X2 0	5310-010-2634 NUT, PLAIN, HEXAGON; door latch, 5/16-18 thd size	"A"	4	*	*	14	18
9 X2 0	5310-012-5599 NUT, PLAIN, PLATE; side door assembly mtg. No. 10-24 thd size	"A"	14	*	*	14	11
9 X2 0	5305-011-0499 SCREW, MACHINE; side door assembly, No. 10-24 thd size; 3/8 in. lg	"A"	14	*	*	14	10
9 X2 0	5310-010-6261 WASHER, FLAT; door latch, 5/16 in. id, 3/4 in. od, 1/16 in. thk	"A"	4	*	*	14	16
9 X2 0	5310-010-3320 WASHER, LOCK; door latch, 0.319 in. id, 0.591 in. od, 0.078 in. thk	"A"	4	*	*	14	17
X2 0	2805-732-1232 FASTENER: door, left	"A" (28835) 3DW276	1	*	*	14	

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENTS				ILLUSTRATIONS
			15 DAYS ORGANIZATIONAL MAINTENANCE	1-5 ECH	2ND ECH	FIG. ITEM NO.	
X2 0		FASTENER: door, left and right	"B" (28835) 3DW6343	2	*	*	
X2 0		FASTENER: door, right	"A" (28835) 3DW275	1	*	*	
X2 0		HANDLE, DOOR	"B" (28835) 0W6347	2	*	*	
X2 0		LATCH, DOOR	"B" (28835) DWK350	2	*	*	
X2 0		LOCK, HOOD DOOR: front	"B" (28835) BW413	1	*	*	
X2 0		LOCK, HOOD DOOR: rear	"B" (28835) BW412	1	*	*	
9 X2 0	5310-010-2634	NUT, PLAIN, HEXAGON: door latch, 5/16-18 thd size	"B"	2	*	*	
9 X2 0	5310-010-2634	NUT, PLAIN, HEXAGON: hood clamping strap screws, 5/16-18 thd size	"B"	10	*	*	
9 X2 0	5310-010-2637	NUT, PLAIN, HEXAGON: rear panel to skid screw, 1/2-13 thd size	"B"	2	*	*	
9 X2 0	5310-012-5599	NUT, PLAIN, PLATE: hood top screw, No. 10-24 thd size	"A"	22	*	*	
9 X2 0	5310-012-5599	NUT, PLAIN, PLATE: top door panel to hood top screw, No. 10-24 thd size	"B"	14	*	*	
X2 0		PANEL, HOOD: front	"A" (28835) 30W272	1	*	*	
X2 0	3431-802-2217	PANEL, HOOD: rear	"A" (28835) 30W250	1	*	*	
X2 0	3431-732-1167	PANEL, HOOD: upper section	"A" (28835) 30W237	1	*	*	
X2 0		PANEL, HOOD: upper section	"B" (28835) DW3164	1	*	*	
9 X2 0	5305-042-7237	SCREW, CAP, HEXAGON HEAD: battery access door, cadmium or zinc plated; 1/4-20 thd size; 3/8 in. lg	"A"	4	*	*	
9 X2 0	5305-010-0159	SCREW, CAP, HEXAGON HEAD: rear panel to skid; 1/2-13 thd size; 1 1/4 in. lg	"B"	2	*	*	
9 X2 0	5305-206-1494	SCREW, MACHINE: front and rear hood panel, cadmium or zinc plated; 1/4-20 thd size; 1/2 in. lg	"A"	10	*	*	
9 X2 0	5305-011-0499	SCREW, MACHINE: hood top, No. 10-24 thd size; 3/8 in. lg	"A"	22	*	*	
9 X2 0	5305-011-0500	SCREW, MACHINE: top door panel to hood top, No. 10-24 thd size; 1/2 in. lg	"B"	14	*	*	
X2 0		STRAP: upper hood panel, radiator end	"B" (28835) CW395	1	*	*	
X2 0		STRAP: upper hood panel, rear	"B" (28835) CW510	1	*	*	
9 X2 0	5310-638-2587	WASHER, FLAT: hood clamping strap screws, 11/32 in. id, 11/16 in. od, 0.065 in. tk	"B"	10	*	*	
9 X2 0	5310-010-3319	WASHER, LOCK: battery access door, 0.255 in. id, 0.493 in. od, 0.062 in. tk	"B"	4	*	*	
9 X2 0	5310-010-3320	WASHER, LOCK: front and rear hood clamping strap and door latches, 0.319 in. id, 0.591 in. od, 0.078 in. tk	"B"	12	*	*	
9 X2 0	5310-010-3323	WASHER, LOCK: rear panel to skid screw, 0.509 in. id, 0.879 in. od, 0.125 in. tk	"B"	2	*	*	
			GROUP 22 - MISCELLANEOUS BODY, CHASSIS OR HULL, AND ACCESSORY ITEMS 2210 - DATA PLATES AND INSTRUCTION HOLDERS	2	*	*	
9 P 0	5330-543-3261	GASKET: nameplate screw, radiator, copper; 3/8 in. id, 3/32 in. tk	"B"	1	*	*	



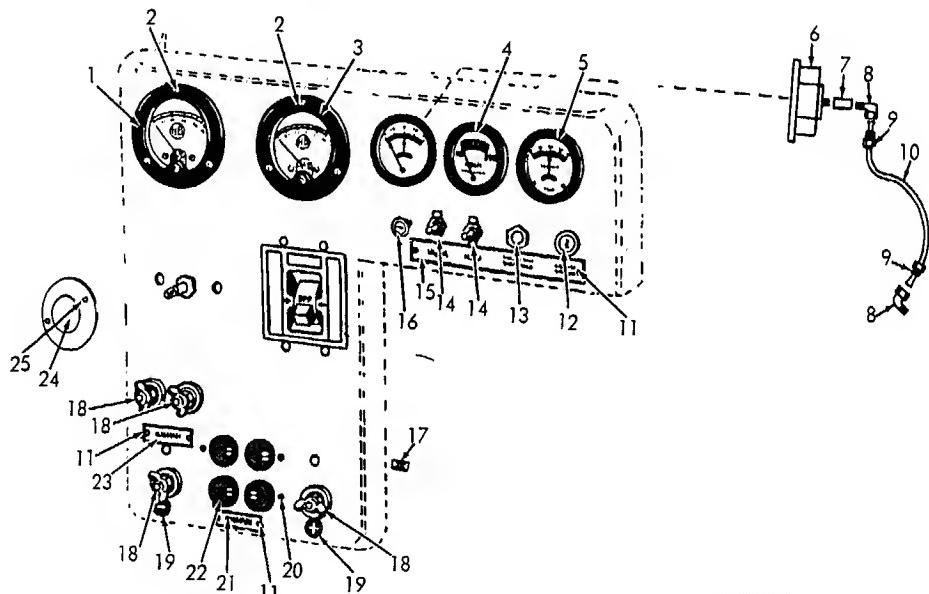
## INDEX TO PARTS, FIGURE 16

Reference Number	Functional Group	Item Name
1	4410	SCREW
2	2210	PLATE
3	2210	SCREW
4	4407	SCREW
5	4407	VOLTMETER
6	4410	RESISTOR
7	2210	PLATE
8	4408	CLAMP
9	2210	PLATE
10	2210	PLATE
11	4414	LEAD
12	4414	WASHER
13	4414	SCREW
14	2210	PLATE
15	4410	SWITCH
16	2210	PLATE
17	4407	AMMETER



EMC 3431-204-20P/16

Figure 16. Control Panel Components.



EMC 3431-204-20P/17

Figure 17. Auxiliary Control Panel Components.

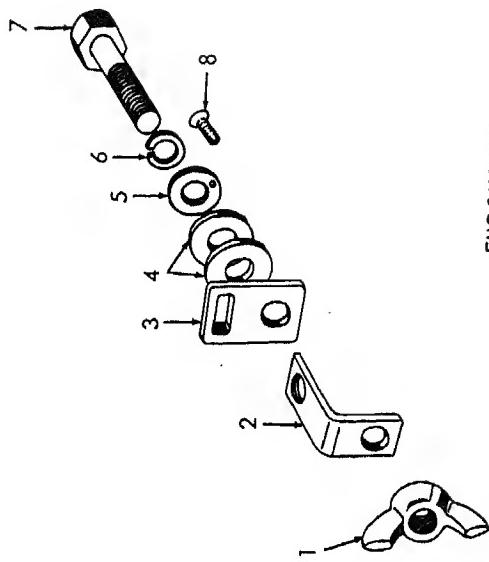
## INDEX TO PARTS, FIGURE 17

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4407	AMMETER	10	4702	TUBE	18	4408	STUD
2	4407	SCREW	11	2210	SCREW	19	2210	TRANSFER
3	4407	VOLTMETER	12	0607	SWITCH	20	4408	SCREW
4	4702	THERMOMETER	13	0607	SWITCH	21	2210	PLATE
5	0607	AMMETER	14	0607	SWITCH	22	4408	CONNECTOR
6	4702	GAGE	14	4410	SWITCH	23	2210	PLATE
7	4702	COUPLING	15	2210	PLATE	24	2210	PLATE
8	4702	ELBOW	16	0312	CONTROL	25	2210	SCREW
9	4702	INVERTED NUT	17	4408	NUT			

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			ILLUS. TRATIONS
			EXPDNTY UNIT OF ISSUE	QTY IN CORPRTD IN UNIT	15 DAYS ORGANIZATIONAL MAINTENANCE 2ND ECH	
					1-5 EQP	FIG. NO.
4407 - CONTROL PANELS, HOUSING, CUBICLES (cont.)						
9 X2 0	5305-282-1041	SCREW, TAPPING, THREAD FORMING: generator ammeter and voltmeter mtg. No. 4-24 thd size; 3/8 in. lg			6 *	*
9 X2 0	5305-218-5869	SCREW, TAPPING, THREAD FORMING: generator voltmeter and ammeter mtg. cadmium or zinc plated; No. 4-24 thd size; 1/2 in. lg			6 *	*
11 P1 0	6625-244-5673	VOLTMETER: auxiliary generator control panel	(28835) DM1902		1 *	*
11 P1 0	6625-244-5672	VOLTMETER: generator, 100-0-100 dc	(28835) BM712A		1 *	*
4408 - CONNECTING DEVICES						
11 X2 0	5975-447-4285	CLAMP, ELECTRICAL: ground and electrode bus bar; cable connector	(28835) 5CM985		2 *	*
X2 0	5970-698-7191	INSULATOR, PLATE: bakelite	(28835) 5CM974		2 *	*
11 X2 0	5310-010-3131	NUT, PLAIN, WING: cable connecting, 1/2-13 thd size	(28835) 5CM975		2 *	*
9 X2 0	5305-017-0877	SCREW, CAP, HEXAGON HEAD: ground and electrode connector, 1/2-13 thd size; 1 3/4 in. lg	(28835) AW750		2 *	*
9 X2 0	5305-011-0985	SCREW, MACHINE: voltmeter cable connector washer, No. 6-32 thd size; 3/16 in. lg	(28835) AW813		2 *	*
X2 0	5310-213-1215	WASHER, FLAT: voltmeter connection	(28835) AW368		2 *	*
9 X2 0	5310-010-0203	WASHER, LOCK: connector screw, 0.500 in. id, 0.879 in. od, 0.125 in. thk	(28835) AW369		2 *	*
X2 0	5330-429-1034	WASHER, NONMETALLIC: connector screw, fiber; 27/32 in. id, 1 5/8 in. od, 1/4 in. thk	(28835) 5CM976		4 *	*
11 X2 0	5935-230-1482	CONNECTOR, RECEPTACLE, ELECTRICAL: auxiliary control panel, double three pole outlet, 15 amp, 125v	(28835) GE2989		2 *	*
9 X2 0	5310-017-3771	NUT, STAMPED: receptacle mtg, cadmium or zinc plated; No. 6-32 thd size	(28835) A610-432-1		4 *	*
9 X2 0	5305-010-0737	SCREW, MACHINE: receptacle mtg, No. 6-32 thd size; 3/8 in. lg	(28835) A610-432-1		4 *	*
X2 0	5307-272-7097	STUD, CONTINUOUS THREAD: control panel, 6v, 110v, 1/4-20 thd size; 2 1/4 in. lg	(28835) CW1120A		4 *	*
X2 0	5310-010-9084	INSULATOR, BUSHING, FIBER: terminal stud	(28835) 1704		4 *	*
9 X2 0	5310-010-3127	NUT, PLAIN, HEXAGON: terminal stud, 1/4-20 thd size	(28835) DM2078		9 *	*
X2 0	5310-010-3127	STUD: terminal	(11349) C205334-1		4 *	*
9 X2 0	5310-274-8707	WASHER, FLAT: terminal stud, 1/4 in. id, 1/2 in. od, 0.031 in. thk	(28835) DM1680		4 *	*
9 X2 0	5310-011-4604	WASHER, LOCK: terminal stud, 0.262 in. id, 0.502 in. od, 0.025 in. thk	(28835) DM1680		4 *	*
X2 0	5330-202-1366	WASHER, NONMETALLIC: terminal stud, fiber; 33/64 in. id, 1 1/8 in. od, 1/2 in. thk	(28835) A25		8 *	*
4410 - SWITCHING, TIMING AND SPEED CONTROL						
X2 0	2910-458-7963	ARM, BUTTERFLY CONTROL, CARBURETOR	(28835) 5CW779		1 *	*
X2 0	2910-447-4280	CHAIN ASSEMBLY: engine idle	(28835) 5CW702		1 *	*
P1 0	2920-354-2387	COIL ASSEMBLY, IDLING CONTROL	(28835) 5CW3209		1 *	*

## INDEX TO PARTS, FIGURE 18

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4408	NUT	5	4408	WASHER
2	4408	BUS BAR	6	4408	WASHER
3	4408	INSULATOR	7	4408	SCREW
4	4408	WASHER	8	4408	SCREW

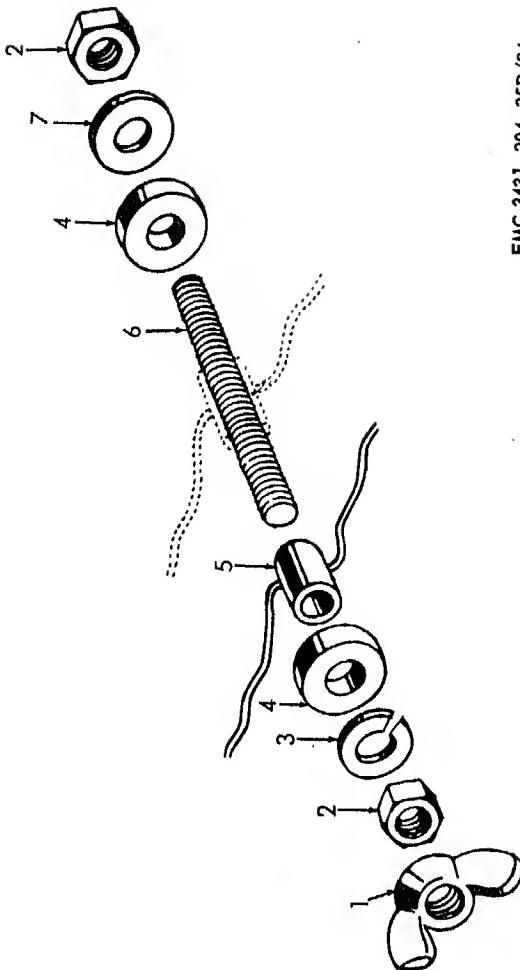


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Figure 18. Connecting Device (1).

## INDEX TO PARTS, FIGURE 19

Reference Number	Functional Group	Item Name
1	4408	NUT
2	4408	NUT
3	4408	WASHER
4	4408	WASHER
5	4408	INSULATOR
6	4408	STUD
7	4408	WASHER



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Figure 19. Connecting Device (2).

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	ILLUS-TRATIONS			
			GUIDE QUANTITIES PER MAJOR EQUIPMENT	15 DAYS ORGANIZATIONAL MAINTENANCE	FIG. NO.	ITEM NO.
SOURCE	RECOVERY-ABILITY	MAINTENANCE	QUANTITY IN UNIT	2ND ECH	1-5 EQP	6-10 EQP
4410 - SWITCHING, TIMING AND SPEED CONTROL (cont.)						
11 X2 0	5950-374-5068	ARM, ROCKER YOKE: solenoid coil	(28835) FW1356	1	*	*
11 P1 0	5950-374-5052	COIL, SOLENOID	(28835) DATA150	1	*	*
10 X2 0	5325-264-1213	GROMMET, RUBBER: solenoid cover, electrical wire, 3/8 in. id, 11/16 in. od, 7/64 in. thk	(28835) FW1422	1	*	*
X2 0		GUIDE, PLUNGER	(28835) FW934A	1	*	*
M 0		INSULATOR: solenoid coil to yoke	(28835) SCW325I	1		
10 P 0	5970-238-4842	MANUFACTURE FROM: INSULATION SHEET, ELECTRICAL (2 in. x 4 in, required)	SR	See Group 9501		
11 X2 0	5970-312-8704	INSULATOR, SOLENOID PLUNGER	(28835) FW1357	1	*	*
X2 0	5310-886-9496	NUT, SHEET SPRING pivot pin	(28835) C1B3-012-27	1	*	*
11 X2 0	5950-374-5069	PIN, STRAIGHT, HEADLESS: solenoid coil	(28835) FW1361A	1	*	*
X2 0		PLATE, COVER: magnetic yoke, back	(28835) SCW3116	1	*	*
X2 0		PLATE, COVER: magnetic yoke, front	(28835) SCW3217	1	*	*
11 X2 0	5950-374-5070	PLUNGER, SOLENOID	(28835) FW1363	1	*	*
9 X2 0	5320-010-0855	RIVET, SOLID: solenoid coil, 1/4 in. dia, 1 in. lg	(28835) 100MS32	1	*	*
9 X2 0	5305-010-0742	SCREW, MACHINE: insulator mtg, No. 6-32 thd size; 1 in. lg		1	*	*
9 X2 0	5305-016-9448	SCREW, TAPPING, THREAD FORMING: cover plate mtg, cadmium or zinc plated; No. 6-32 thd size; 1/4 in. lg		4	*	*
9 X2 0	5305-016-9450	SCREW, TAPPING, THREAD FORMING: plunger stop mtg, cadmium or zinc plated; No. 6-32 thd size; 3/8 in. lg		2	*	*
X2 0		STOP, PLUNGER: solenoid coil	(28835) CM3209	1	*	*
11 X2 0	5950-371-5481	SUPPORT, SOLENOID, COIL: magnetic	(28835) SCW3215	1	*	*
X2 0	5330-291-7940	WASHER, NONMETALLIC: fiber: 1 1/8 in. id, 2 1/4 in. od, 1/16 in. thk	(28835) FW936	2	*	*
11 P1 0	5945-371-5483	MERCURY SWITCH: time delay	(28835) FW2364	1	*	*
9 X2 0	5310-275-1706	NUT, PLAIN, HEXAGON: time delay switch mtg, No. 6-32 thd size		2	*	*
11 P1 0	5905-679-5804	RESISTOR, VARIABLE: multi-range	(28835) AN1672	1	*	*
X2 0		BRACKET: handwheel mtg	(28835) AN334	3	*	*
X1		BRACKET: rear plug mtg	(28835) AN437	1	*	*
X1	3432-447-4197	CATCH, BALL FRICITION, CONTACT RING	(28835) AN459	4	*	*
X2 0	5340-374-5204	CATCH: ratchet	(28835) AN465	1	*	*
X1		CLIP, SPRING TENSION: multi-range switch	(28835) W799C70	4		
X2 0	5935-258-4660	CONNECTOR, RECEPTACLE, ELECTRICAL: 2 contacts	(04009) 4239	1	*	*
X1	5930-374-5039	CONTACT, ELECTRICAL	(28835) AN156	2	*	*
X1	5945-429-0929	CONTACT, ELECTRICAL: multi-range switch	(28835) AN306	1	*	*
X2 0		OISC, SWITCH, FRONT	(28835) AN431	1	*	*
X2 0	5340-387-9438	HANDWHEEL: multi-range switch	(28835) AN212	12		
X1		HOUSING: internal, multi-range switch	(28835) AN823	1		
X1	5970-447-4194	INSULATOR, CONTACT FINGER SCREW	(28835) AN307	2	*	*
11 X2 0	5310-275-1706	NUT, PLAIN, HEXAGON: remote control plug, No. 6-32 thd size		2	*	*
9 X2 0	5310-555-9544	NUT, PLAIN, HEXAGON: resistance element mtg, 3/8-16 thd size		1	*	*
9 X2 0	5335-429-0925	PLATE, DIAL: multi-range switch	(28835) AN575	1	*	*

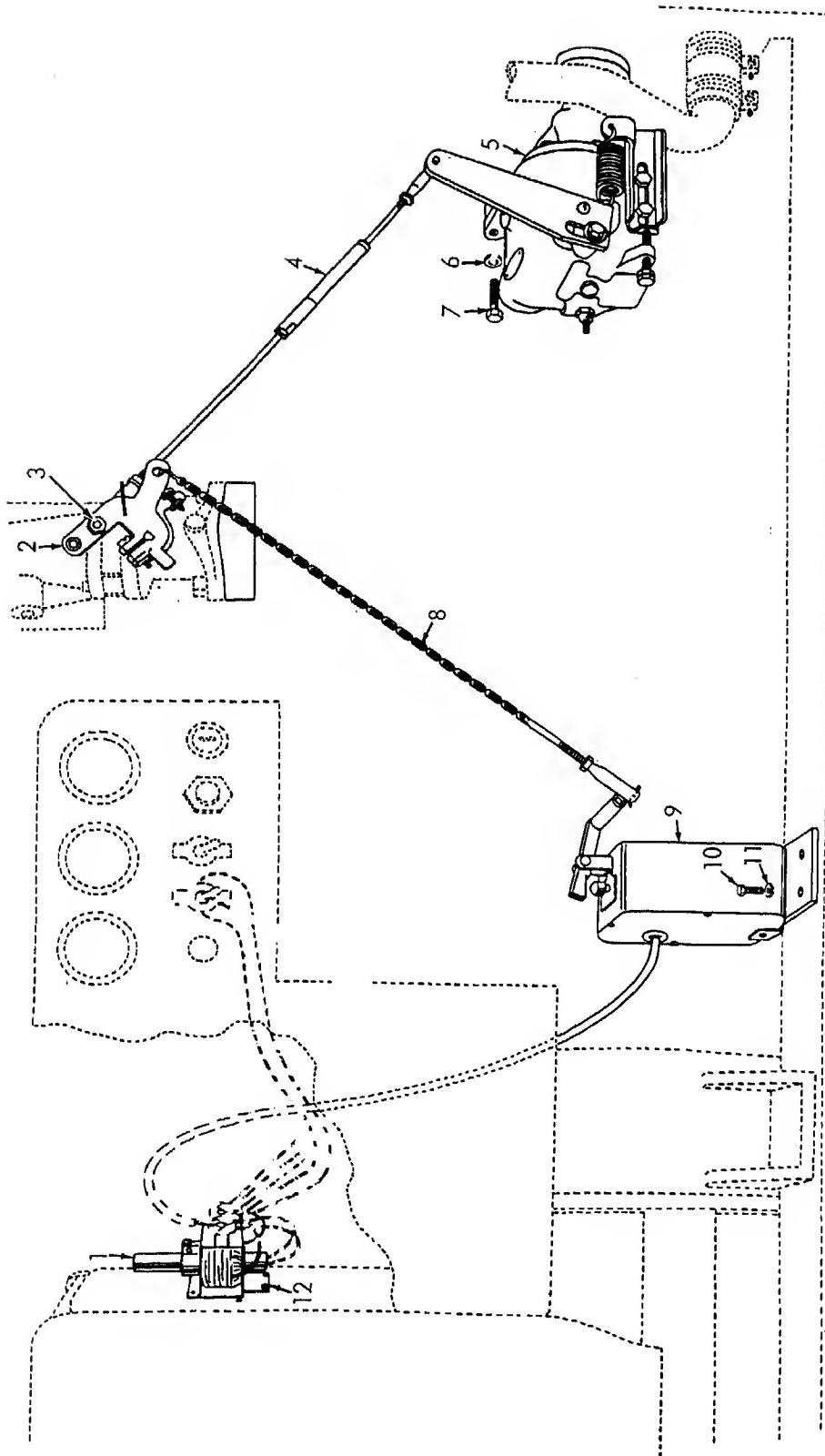
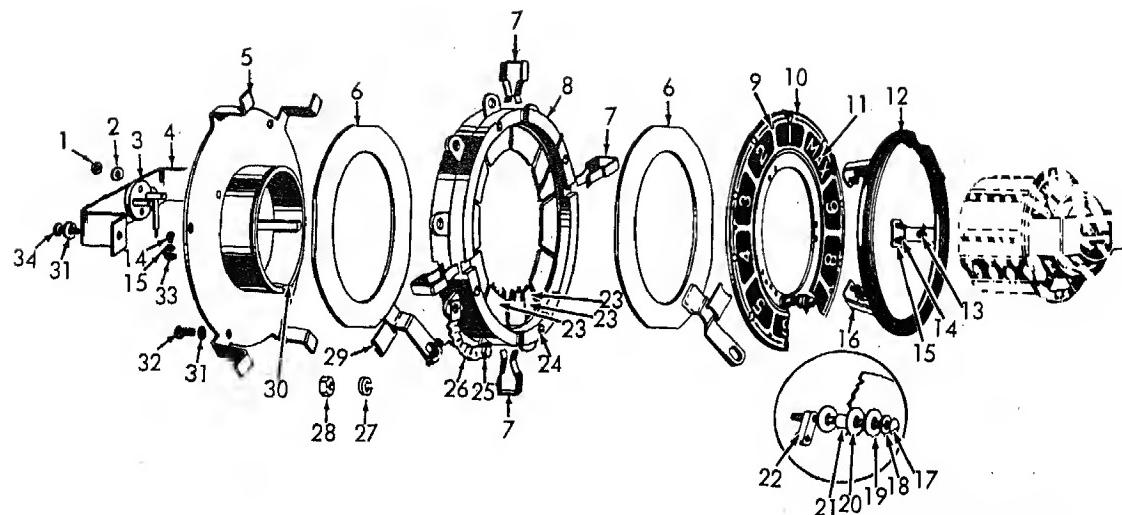


Figure 20. Switching and Speed Controls.

## INDEX TO PARTS, FIGURE 20

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4410	MERCURY ARM	4	0308	ROD	7	0308	BOLT	10	4410	SCREW
2	4410	ARM	5	0308	GOVERNOR	8	4410	CHAIN AY	11	4410	WASHER
3	0308	NUT	6	0308	WASHER	9	4410	COIL AY	12	4410	SCREEN

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT				ILLUS-TRATIONS
			15 DAYS ORGANIZATIONAL MAINTENANCE	2ND ECH	FIG. NO.	ITEM NO.	
SOURCE	RECOVERABILITY	MAINTENANCE ABILITY	EXPERIENCE	ABILITY OF ISSUE	INCORPORATED IN UNIT	1-5 EQP	6-10 EQP
4410 - SWITCHING, TIMING AND SPEED CONTROL (cont.)							
11 X2 0	5970-308-2814	PLATE, INSULATION, RANGE SWITCH	(28835) AW929	2	*	*	21 29
11 X2 0	5905-447-4196	RESISTANCE ELEMENT	(28835) AW335	1	*	*	21 26
11 X1	5930-447-4231	RING, CONTACT	(28835) OM890A	1			21 6
X1	3431-387-9466	RING, CONTACT CONTROL	(28835) OM859	1			21 8
9 X2 0	5305-010-6974	SCREW, CAP, HEXAGON HEAD: resistance element mtg, 3/8-16 thd size; 1/2 in. lg		1	*	*	21 25
9 X2 0	5305-011-3941	SCREW, MACHINE: contact finger mtg, 1/4-20 thd size; 1 1/4 in. lg		2	*	*	21 17
9 X2 0	5305-011-0499	SCREW, MACHINE: handwheel bracket mtg and rheostat catch, No. 10-24 thd size; 3/8 in. 19		7	*	*	21 14
9 X2 0	5305-695-1344	SCREW, MACHINE: internal housing mtg, 1/4-20 thd size; 5/8 in. lg		4	*	*	21 32
9 X2 0	5305-275-9837	SCREW, MACHINE: rear panel and bracket mtg, 1/4-20 thd size; 3/8 in. lg		2	*	*	21 34
9 X2 0	5305-042-6632	SCREW, TAPPING, THREAD FORMING: dial mtg, cadmium or zinc plated; No. 4-24 thd size; 3/16 in. lg		5	*	*	21 11
9 X2 0	5305-167-2327	SCREW, TAPPING, THREAD FORMING: handwheel bracket mtg, cadmium or zinc plated; No. 8-18 thd size; 1/2 in. lg		3	*	*	21 13
9 X2 0	5310-186-7358	WASHER, FLAT: rheostat catch, brass; 0.187 in. id, 0.375 in. od, 0.049 in. thk	(28835) B130	1	*	*	21 33
9 X2 0	5310-010-3319	WASHER, LOCK: contact finger mtg, cadmium or zinc plated; 0.255 in. id, 0.493 in. od, 0.062 in. thk		2	*	*	21 31
9 X2 0	5310-017-4916	WASHER, LOCK: contact finger mtg, cadmium or zinc plated; 0.262 in. id, 0.742 in. od, 0.036 in. thk		2	*	*	21 19
9 X2 0	5310-010-6497	WASHER, LOCK: handwheel bracket mtg and rheostat catch, 0.194 in. id, 0.337 in. od, 0.047 in. thk		7	*	*	21 15
9 X2 0	5310-010-3319	WASHER, LOCK: internal housing arg, rear bracket mtg, contact finger, 0.255 in. id, 0.493 in. od, 0.062 in. thk		8	*	*	21 18
9 X2 0	5310-010-6495	WASHER, LOCK: remote control plug, 0.141 in. id, 0.253 in. od, 0.031 in. thk		2	*	*	21 2
9 X2 0	5310-261-7340	WASHER, LOCK: resistance element mtg, 0.382 in. id, 0.689 in. od, 0.094 in. thk		1	*	*	21 27
Y2 0	5330-447-4192	WASHER, NONMETALLIC: fiber; 25/64 in. id, 5/8 in. od, 1/8 in. thk	(28835) AK1074	4	*	*	21 20
9 X2 0	5305-261-1022	SCREW, CAP, HEXAGON HEAD: solenoid coil mtg, 1/4-20 thd size; 3/4 in. lg		2	*	*	20 10
-9	5305-010-0737	SCREW, MACHINE: time delay switch mtg, No. 6-32 thd size; 3/8 in. lg		2	*	*	20 12
9 X2 0	5305-016-9554	SCREW, TAPPING, THREAD FORMING: multi-range and polarity switch mtg, cadmium or zinc plated; 1/4-28 thd size; 3/8 in. lg		6	*	*	16 1
11 P1 0	5930-258-5541	SWITCH, TOGGLE: idle device	(28835) FW1312	1	See Group 9901	17 14	
11 P1 0	5930-272-1382	SWITCH, TOGGLE: polarity	(28835) AW794	1	*	*	16 15
9 X2 0	5310-017-3124	WASHER, LOCK: multi-switch top mtg, 0.262 in. id, 0.742 in. od, 0.036 in. thk		2	*	*	20 11
9 X2 0	5310-010-3319	WASHER, LOCK: solenoid coil mtg, 0.255 in. id, 0.493 in. od, 0.062 in. thk		2	*	*	20 11
9 X2 0	5310-010-6495	WASHER, LOCK: time delay switch mtg, 0.141 in. id, 0.253 in. od, 0.031 in. thk		2	*	*	

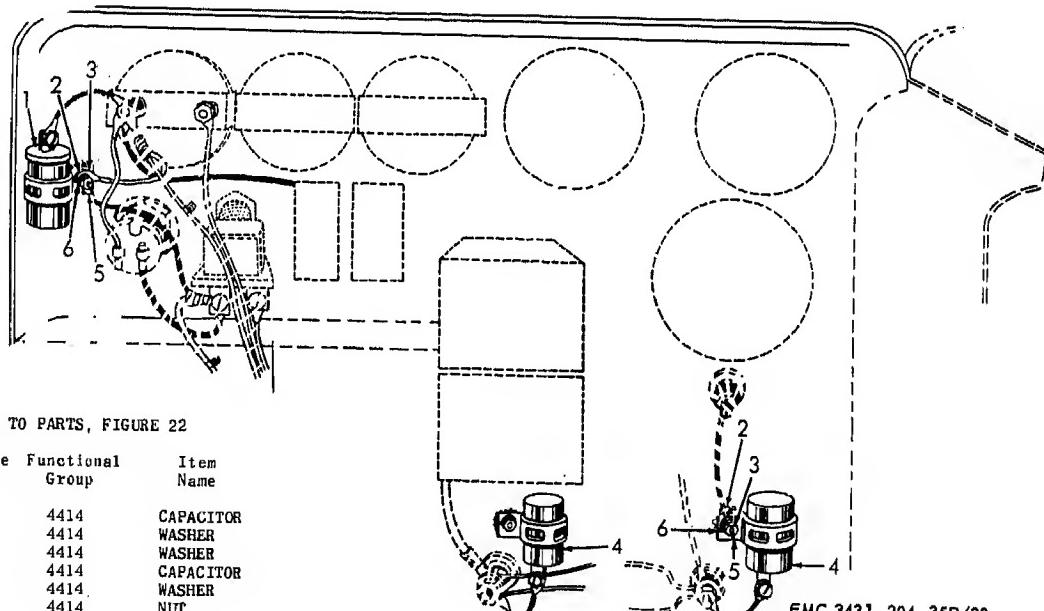


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Figure 21. Multirange Switch.

## INDEX TO PARTS, FIGURE 21

Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name	Reference Number	Functional Group	Item Name
1	4410	NUT	13	4410	SCREW	24	4410	CATCH
2	4410	WASHER	14	4410	SCREW	25	4410	SCREW
3	4410	CONNECTOR	15	4410	WASHER	26	4410	RESISTINC ELEMENT
4	4410	BRACKET	16	4410	BRACKET	27	4410	WASHER
5	4410	HOUSING	17	4410	SCREW	28	4410	NUT
6	4410	RING	18	4410	WASHER	29	4410	PLATE
7	4410	CLIP	19	4410	WASHER	30	4410	CATCH
8	4410	RING	20	4410	WASHER	31	4410	WASHER
9	4410	DISC	21	4410	INSULATOR	32	4410	SCREW
10	4410	PLATE	22	4410	CONTACT	33	4410	WASHER
11	4410	SCREW	23	4410	CONTACT	34	4410	SCREW
12	4410	HANDWHEEL						



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Figure 22. Radio Interference Suppression.

SOURCE CODES	FEDERAL STOCK NUMBER	DESCRIPTION	GUIDE QUANTITIES PER MAJOR EQUIPMENT			
			EXPIRATION OF ENTITLEMENT	INVENTORY QUANTITY IN UNIT	ORGANIZATIONAL MAINTENANCE 2ND ECH	ILLUSTRATIONS ITEM NO.
TECHNICAL SERVICE SOURCE	MaintenancE RECOVERY ABILITY		1-5 EQP	6-10 EQP		
4414 - RADIO INTERFERENCE SUPPRESSION						
11 P 0	5910-161-6876	CAPACITOR, FIXED, PAPER DIELECTRIC: auxiliary control panel 1	(28835) DM5133AB	1	See Group 9901	22 1
11 P 0	5910-669-3913	CAPACITOR, FIXED, PAPER DIELECTRIC: auxiliary control panel, 0.1 uf. 500v, ac/dc	(28835) DM5133AA	2	(1)	(1) 22 4
11 P 0	5910-666-8381	CAPACITOR, FIXED, PAPER DIELECTRIC: control panel	(28835) DM5133AG	4	(1)	(1) (1)
11 P 0	5910-284-4087	CAPACITOR, FIXED, PAPER DIELECTRIC: generator brush holder, 0.25 uf	(28835) DM5133AF	4	(1)	(1) (1)
11 P 0	5910-127-8448	CAPACITOR, FIXED, PAPER DIELECTRIC: generator exciter brush, No. F, uf, 0.1	(28835) DM5133A	1	(1)	(1) (1)
X2 0	6150-279-6065	LEAD, ELECTRICAL: louver cover to panel	(28835) DM6316	1	*	*
X2 0	NOT PLAIN, HEXAGON: auxiliary control panel capacitor mtg			2	*	*
9 X2 0	5310-011-0633	NUT, PLAIN, HEXAGON: capacitor mtg, control panel, No. 10-24 thd size (Supplied under Stock No. 5310-011-0633)		4	*	*
9 X2 0	5305-017-9791	SCREW, CAP, HEXAGON HE40: louver to panel lead, 1/4-20 thd size; 1/2 in. lg		2	*	*
9 X2 0	5305-011-0502	SCREW, MACHINE: auxiliary control panel capacitor mtg, No. 10-24 thd size; 3/4 in. lg		3	*	*
9 X2 0	5305-011-0985	SCREW, MACHINE: capacitor lead, control panel, No. 6-32 thd size; 3/16 in. lg		4	*	*
9 X2 0	5305-011-0499	SCREW, MACHINE: capacitor mtg, control panel (Supplied under Stock No. 5305-011-0499)		4	*	*
9 X2 0		WASHER, [LOCK; auxiliary control panel capacitor mtg (Supplied under Stock No. 5310-010-6497)		3	*	*
9 X2 0		WASHER, [LOCK: auxiliary control panel capacitor mtg (Supplied under Stock No. 5310-017-3122)		3	*	*
9 X2 0		WASHER, [LOCK: capacitor mtg, control panel (Supplied under Stock No. 5310-010-6497)		4	*	*
9 X2 0		WASHER, [LOCK: capacitor mtg, control panel (Supplied under Stock No. 5310-017-3122)		4	*	*
9 X2 0	5310-010-6497	WASHER, [LOCK: generator and exciter brush holder capacitor mtg, 0.194 in. id, 0.337 in. od, 0.047 in. thk		6	*	*
9 X2 0	5310-017-3122	WASHER, [LOCK: generator and exciter brush holder capacitor mtg, 0.200 in. id, 0.595 in. od, 0.031 in. thk		6	*	*
9 X2 0	5310-017-3124	WASHER, [LOCK: louver to panel lead, 0.262 in. id, 0.742 in. od, 0.036 in. thk		2	*	*
GROUP 47 - GAGES: WEIGHING AND MEASURING DEVICES						
4702 - GAGES, MOUNTINGS, LINES AND FITTINGS						
X2 0	4730-187-77609	COUPLING, PIPE: oil pressure gage, galvanized; both ends female, 1/8-27 thd size; 3/4 in. lg (GE)		1	*	*
X2 0	4730-278-4766	ELBOW, PIPE TO TUBE: oil coupling to oil line, one end male, 1/8-27 thd size; other end female, 1/4 in. tube, 7/16-20 thd size		2	*	*

GROUP 47 - GAGES: WEIGHING AND MEASURING DEVICES  
4702 - GAGES, MOUNTINGS, LINES AND FITTINGS

COUPLING, PIPE: oil pressure gage, galvanized; both ends female,  
1/8-27 thd size; 3/4 in. lg (GE)

ELBOW, PIPE TO TUBE: oil coupling to oil line, one end male, 1/8-27 thd  
size; other end female, 1/4 in. tube, 7/16-20 thd size



## FEDERAL STOCK NUMBER AND PART NUMBER INDEX

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AW103	28835	37	DW1168C	28835	19
AW156	28835	41	DW1169	28835	19
AW164	28835	37	DW1170A	28835	37
AW165	28835	37	DW1170B	28835	37
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AW394	28835	37	DW1439	28835	13
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AW431	28835	41	DW1454	28835	13
AW437	28835	41	DW1691	28835	37
AW334	28835	43	DW1725	28835	13
AW335	28835	39	DW1727	28835	13
AM368	28835	37	DW1781	28835	46
AM370	28835	15	DW1816	28835	21
AN397	28835	41	DW1880	28835	39
AN437	28835	41	DW1901	28835	37
AN459	28835	41	DW1902	28835	39
AN465	28835	41	DW2078	28835	39
AN575	28835	37	DW3008	28835	13
AN638	28835	39	DW2013A	28835	13
AN750	28835	43	DW3085	28835	13
AN794	28835	37	DW3131A	28835	13
AN807	28835	39	DW3169	28835	13
AM813	28835	41	DW3184	28835	36
AN823	28835	43	DW3224	28835	46
AN929	28835	21	DW346	28835	31
A101/2	70493	21	DW3461C	28835	19
A151/2	28835	39	DW3786A	28835	21
A25	28835	37	DW41528	28835	31
A49	28835	37	DW5094	28835	45
A51	28835	39	DW51334A	28835	45
A610-432-1	28835	13	DW51334B	28835	45
A775	28835	36	DW51334C	28835	31
8W412	28835	36	DW51334D	28835	31
8W413	28835	19	DW51334F	28835	45
8W559	28835	31	DW51334G	28835	45
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SM905-011-0488	32	5305-386-1502	23	5310-011-5547	32,33	5310-637-0541	8,13,	5910-284-4087	45	
SM905-011-0489	32	5305-353-7942	25	5310-012-0214	8,11,	5310-637-0541	17,19,	5910-304-4196	45	
SM905-011-0499	32,35,	5305-429-0970	13	5310-012-0633	23,	5310-582-5965	23,26	5905-679-5804	43	
SM905-011-3958	36,43,	5305-527-3895	10	5310-011-4545	10,17	5310-582-5977	17	5910-127-8468	41	
SM905-011-3959	45	5305-543-2685	13	5310-012-0368	25,28	5310-582-5987	36	5910-666-8381	45	
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SM905-012-5961	15	5306-010-0124	15	5310-013-1099	19	5320-010-4067	13	5910-872-1382	43	
SM905-012-6080	17	5306-012-2007	13	5310-013-4570	19	5320-026-8018	13	5910-947-4251	43	
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SM905-012-5965	29	5306-268-5784	8	5310-017-3124	43,45	5330-202-1386	3,9	5940-211-7468	31	
SM905-013-2259	37	5306-272-4270	10	5310-017-3771	39	5330-233-5847	6,46	5940-271-9499	17	
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SM905-013-2900	29	5306-286-5784	8	5310-017-8554	33	5330-245-5503	1,2,	5945-429-0929	41	
SM905-013-3906	11									

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5310-042-6903		11	5310-043-2226		26
5310-044-6362		25	5310-046-8442		2,23
5310-047-4192		19,36	5310-049-0971		13
5310-050-3270		25	5310-052-3001		3,5
5310-052-3001		25	5310-054-3243		5
5310-054-3243		25	5310-056-3256		5
5310-056-3256		25	5310-058-5560		5
5310-058-5560		25	5310-060-5535		5
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5310-080-258-5541		25	5310-082-1331		41
5310-082-1331		25	5310-084-6862		41
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5310-088-3913		25	5310-090-0306		37
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5310-108-544		25	5310-110-655-9544		46
5310-110-655-9544		25	5310-112-660-2649		46
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5950-374-5068	41	608473	74865	5	629792	74865	17	6680-406-2997	74865	46
5950-374-5069	41	6115-025-3109	74865	37	637191	74865	1,11	6680-475-5576	74865	5
5950-374-5070	41	6115-321-4545	74865	33	637192	74865	1,1	6680-514-3995	74865	2,23
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5970-238-4842	43	6140-191-8509	74865	31	640723	74865	23	670500	74865	23
5970-308-2814	43	6140-429-0958	74865	31,33	647834	74865	3	677179	74865	17
5970-312-6704	41	6140-636-7805	74865	31	651192	74865	17	679023	74865	1
5970-333-7172	25	6140-636-7821	74865	31	6810-249-9354	74865	17	6810-249-9354	74865	17
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5970-350-8105	29	6145-313-9429	74865	17	651213	74865	1	683067	74865	1,19
5970-447-4194	41	614976	74865	10	651251	74865	10	683161	74865	1,1
5970-608-7191	39	6150-279-6045	74865	31,45	655116	74865	3	685268	74865	11
5975-447-4285	39	6150-279-6089	74865	31	657047	74865	17	685380	74865	7
5977-143-3299	26	6150-279-8335	74865	31	6620-430-5727	74865	46	688181	74865	7
5977-280-3950	26	6150-279-8386	74865	31	6625-244-5872	74865	39	698192	74865	1,11
5977-284-9001	37	618621	74865	7	6625-244-5873	74865	39	692657	74865	1,11
5977-371-5501	37	618622	74865	1,6	6625-252-5545	74865	30	693558	74865	2
5977-374-5201	37	618759	74865	7	6625-252-5549	74865	37	693559	74865	3
5977-447-4299	26	622762	74865	2,21	6625-254-5229	74865	37	693660	74865	3
5977-636-4296	26	623368	74865	10	665699	74865	3	695441	74865	3
5977-695-7139	26	623369	74865	3	666014	74865	2	695342	74865	1,2
600752	74865	1	6240-155-8684	30	666352	74865	8	780460	74865	1,8
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601275	74865	8						980584	74865	2,3

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627488	74865	3	667751	74865	25	861610	74865	6
629792	74865	17	6680-406-2997	74865	46	861834	74865	13
637191	74865	1,11	6680-475-5576	74865	5	863220	74865	2,23
637192	74865	1,1	6680-514-3995	74865	23	863724	74865	2
637440	74865	1,2*	6685-447-4234	74865	46	866069	74865	29
640723	74865	23	670500	74865	23	866724	74865	1
647834	74865	3	677179	74865	17	870469	74865	21
651192	74865	17	6810-249-9354	74865	1	871100	74865	17
651194	74865	17	683051	74865	31	871851	74865	7
651213	74865	1	683067	74865	7	871863	74865	7
651251	74865	10	683161	74865	11	871934	74865	3
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657047	74865	17	685380	74865	7	918494	74865	21
6620-430-5727	74865	46	688181	74865	46	920248	74865	10
6625-244-5872	74865	39	698192	74865	1	920260	74865	5
6625-244-5873	74865	39	692657	74865	2	926226	74865	17,29
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6625-252-5549	74865	37	693559	74865	3	933439	74865	2
6625-254-5229	74865	37	693660	74865	3	9390-360-631	74865	29
665699	74865	3	695441	74865	1	952062	74865	12
666014	74865	2	695342	74865	1,2	957471	74865	29
666352	74865	8	780460	74865	1,8	980583	74865	2,3
666353	74865	8	780462	74865	2,8	980584	74865	2,3

By Order of the Secretary of the Army:

EARLE G. WHEELER,  
General, United States Army,  
Chief of Staff.

Official:

J. C. LAMBERT,  
Major General, United States Army,  
The Adjutant General.

Distribution:

Active Army:

DCSLOG (1)	Div Engr (2) except Lower	5-129
USASA (2)	Miss Valley, North Central	5-145
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NG: State AG (3).

USAR: Same as active Army except allowance is one copy to each unit.

For explanation of abbreviations used, see AR 320-50.

TM 5-3431-204-20P WELDING MACHINE, ARC; GENERATOR; GASOLINE ENGINE DRIVEN—1963

PIN : 025495-000